1

1 Inorganic Standards

Bijlage bij accreditatie-certificaat
Annexe au certificat d'accréditation
Annex to the accreditation certificate
Beilage zur Akkreditierungszertifikat

531-RM

ISO GUIDE 34:2009

Versie/Version/Fassung	1
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Vorsitzende des Akkreditierungsbüro

De accreditatie werd uitgereikt aan/ L'accréditation est délivrée à/
The accreditation is granted to/ Die akkreditierung wurde erteilt für:

Chem-Lab nv
Industriezone "De Arend", 2
8210 ZEDELGEM

Accréditation BELAC Accreditatie
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531-CAL

NBN EN ISO/IEC 17025:2005

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1 Inorganic Standards

1.1 ICP Standards

1.1.1 ICP Single Element Standards

1.1.2 ICP Multi Element Standards

ICP Single Element Standards 10 000 mg/L

Element	HNO_3	HCl	H_2O	NH_4OH	HF	HNO_3/HF	HNO_3/tart.	KOH	NaOH	Others
Al	CL01.0103	CL01.0104								
Sb		CL01.0123				CL01.0124				
As	CL01.0134									
Ba	CL01.0203	CL01.0204								
Be	CL01.0214									
Bi	CL01.0223									
B			CL01.0233							
Cd	CL01.0303									
Ca	CL01.0314									
Ce	CL01.0323									
Cs	CL01.0333									
Cr	CL01.0364	CL01.0363								
Co	CL01.1123	CL01.1128								
Cu	CL01.1133	CL01.1134								
Dy	CL01.0433									
Er	CL01.0503									
Eu	CL01.0513									
Gd	CL01.0703									
Ga										CL01.0713
Ge						CL01.0743				
Au		CL01.0733								
Hf		CL01.0804			CL01.0803					
Ho	CL01.0823									
In	CL01.0923									
Ir		CL01.0933								
Fe	CL01.0903	CL01.0904								
La	CL01.1203									
Pb	CL01.1223									
Li	CL01.1214									
Lu	CL01.1233									
Mg	CL01.1304	CL01.1310								
Mn	CL01.1313									
Hg	CL01.1153									
Mo				CL01.1334		CL01.1333				
Nd	CL01.1413									
Ni	CL01.1423									
Nb					CL01.1433					
Pd		CL01.1603								
P	CL01.0643		CL01.0633							CL01.0634
Pt		CL01.1613								
K	CL01.1104									
Pr	CL01.1623									
Re	CL01.1804		CL01.1803							
Rh		CL01.1813								
Rb	CL01.1824									
Ru		CL01.1834								
Sm	CL01.1903									
Sc	CL01.1913									
Se	CL01.1923									
Si					CL01.1943	CL01.1934		CL01.1933		
Ag	CL01.2603									
Na	CL01.1404									
Sr	CL01.1963									
S			CL01.2644							CL01.2643
Ta					CL01.2003	CL01.2004				
Te		CL01.2015				CL01.2014				
Tb	CL01.2023									
Tl	CL01.2033									
Th	CL01.2043									
Tm	CL01.2053									
Sn		CL01.2063								
Ti		CL01.2073				CL01.2074				
W				CL01.2303	CL01.2304	CL01.2333				
V	CL01.2203									
Yb	CL01.2503									
Y	CL01.2513									
Zn	CL01.2613									
Zr		CL01.2633								

ICP Standards 10 000 mg/L

Aluminium			
Aluminium	10 g Al / l 2 to 5% HNO3	100 ml 500 ml	CL01.0103.0100 CL01.0103.0500
Aluminium	10 g Al / l 2 to 5% HCl	100 ml 500 ml	CL01.0104.0100 CL01.0104.0500
Antimony			
Antimony	10 g Sb / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.0124.0100 CL01.0124.0500
Antimony	10 g Sb / l 10 to 20% HCl	100 ml 500 ml	CL01.0123.0100 CL01.0123.0500
Arsenicum			
Arsenicum	13.2 g As2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0134.0100 CL01.0134.0500
Barium			
Barium	14.4 g BaCO3 / l 2 to 5% HCl	100 ml 500 ml	CL01.0204.0100 CL01.0204.0500
Barium	14.37 g BaCO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0203.0100 CL01.0203.0500
Beryllium			
Beryllium	10 g Be / l 2 to 5% HNO3	100 ml 500 ml	CL01.0214.0100 CL01.0214.0500
Bismuth			
Bismuth	10 g Bi / l 2 to 5% HNO3	100 ml 500 ml	CL01.0223.0100 CL01.0223.0500
Boron			
Boron	28.596 g H3BO3 / l H2O	100 ml 500 ml	CL01.0233.0100 CL01.0233.0500
Cadmium			
Cadmium	10 g Cd / l 2 to 5% HNO3	100 ml 500 ml	CL01.0303.0100 CL01.0303.0500
Calcium			
Calcium	25 g CaCO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0314.0100 CL01.0314.0500
Calcium oxide			
Calcium oxide	17.848 g CaCO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0319.0100 CL01.0319.0500
Cerium			
Cerium	12.3 g CeO2 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0323.0100 CL01.0323.0500
Cesium			
Cesium	12.3 g Cs2CO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0333.0100 CL01.0333.0500

ICP Standards 10 000 mg/L

Chromium			
Chromium	10 g Cr / l 2 to 5% HCl	100 ml 500 ml	CL01.0363.0100 CL01.0363.0500
Chromium	10 g Cr / l 2 to 5% HNO3	100 ml 500 ml	CL01.0364.0100 CL01.0364.0500
Cobalt			
Cobalt	10 g Co / l 2 to 5% HNO3	100 ml 500 ml	CL01.1123.0100 CL01.1123.0500
Cobalt	10 g Co / l 2 to 5% HCl	100 ml	CL01.1128.0100
Copper			
Copper	12.6 g CuO / l 2 to 5% HCl	100 ml 500 ml	CL01.1134.0100 CL01.1134.0500
Copper	10 g Cu / l 2 to 5% HNO3	100 ml 500 ml	CL01.1133.0100 CL01.1133.0500
Dysprosium			
Dysprosium	11.5 g Dy2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0433.0100 CL01.0433.0500
Erbium			
Erbium	11.5 g Er2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0503.0100 CL01.0503.0500
Europium			
Europium	11.6 g Eu2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0513.0100 CL01.0513.0500
Gadolinium			
Gadolinium	11.6 g Gd2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0703.0100 CL01.0703.0500
Gallium			
Gallium	10 g Ga / l 2 to 5% HNO3 + traces HCl	100 ml 500 ml	CL01.0713.0100 CL01.0713.0500
Germanium			
Germanium	10 g Ge / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.0743.0100 CL01.0743.0500
Gold			
Gold	10 g Au / l 10 to 20% HCl	100 ml 500 ml	CL01.0733.0100 CL01.0733.0500
Hafnium			
Hafnium	10 g Hf / l 5% HF	100 ml 500 ml	CL01.0803.0100 CL01.0803.0500
Hafnium	22.94 g HfOCl2.8H2O / l 2 to 5% HCl	100 ml 500 ml	CL01.0804.0100 CL01.0804.0500
Holmium			
Holmium	11.5 g Ho2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0823.0100 CL01.0823.0500

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ICP Standards 10 000 mg/L

Indium			
Indium	10 g In / l 2 to 5% HNO3	100 ml 500 ml	CL01.0923.0100 CL01.0923.0500
Iridium			
Iridium	18.4 g IrCl3.3H2O / l 10 to 20% HCl	100 ml 500 ml	CL01.0933.0100 CL01.0933.0500
Iron			
Iron	10 g Fe / l 2 to 5% HNO3	100 ml 500 ml	CL01.0903.0100 CL01.0903.0500
Iron	10 g Fe / l 2 to 5% HCl	100 ml 500 ml	CL01.0904.0100 CL01.0904.0500
Lanthanum			
Lanthanum	11.8 g La2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1203.0100 CL01.1203.0500
Lead			
Lead	10 g Pb / l 2 to 5% HNO3	100 ml 500 ml	CL01.1223.0100 CL01.1223.0500
Lithium			
Lithium	53.3 g Li2CO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1214.0100 CL01.1214.0500
Lutetium			
Lutetium	11.4 g Lu2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1233.0100 CL01.1233.0500
Magnesium			**NEW**
Magnesium	10 g Mg / l 2 to 5% HCl	100 ml	CL01.1310.0100
Magnesium	10 g Mg / l 2 to 5% HNO3	100 ml 500 ml	CL01.1304.0100 CL01.1304.0500
Magnesium oxide			
Magnesium oxide	10 g MgO / l 2 to 5% HNO3	100 ml 500 ml	CL01.1309.0100 CL01.1309.0500
Manganese			
Manganese	10 g Mn / l 2 to 5% HNO3	100 ml 500 ml	CL01.1313.0100 CL01.1313.0500
Mercury			
Mercury	10 g Hg / l 2 to 5% HNO3	100 ml 500 ml	CL01.1153.0100 CL01.1153.0500
Molybdenum			
Molybdenum	10 g Mo / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.1333.0100 CL01.1333.0500
Molybdenum	20.43 g (NH4)2MoO4 / l 2% NH4OH	100 ml 500 ml	CL01.1334.0100 CL01.1334.0500
Neodymium			
Neodymium	11.7 g Nd2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1413.0100 CL01.1413.0500

ICP Standards 10 000 mg/L

Nickel			
Nickel	12.73 g NiO / l 2 to 5% HCl	100 ml	CL01.1428.0100
Nickel	10 g Ni / l 2 to 5% HNO3	100 ml 500 ml	CL01.1423.0100 CL01.1423.0500
Niobium			
Niobium	10 g Nb / l 5% HF	100 ml 500 ml	CL01.1433.0100 CL01.1433.0500
Palladium			
Palladium	10 g Pd / l 10 to 20% HCl	100 ml 500 ml	CL01.1603.0100 CL01.1603.0500
Phosphorus			
Phosphorus	42.636 g (NH4)2HPO4 / l H2O	100 ml 500 ml	CL01.0633.0100 CL01.0633.0500
Phosphorus	31.64 g H3PO4 / l H2O	100 ml 500 ml	CL01.0634.0100 CL01.0634.0500
Phosphorus	31.64 g H3PO4 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0643.0100 CL01.0643.0500
Phosphorus pentoxide			
Phosphorus pentoxide	13.81 g H3PO4 / l H2O	100 ml 500 ml	CL01.0629.0100 CL01.0629.0500
Platinum			
Platinum	10 g Pt / l 10 to 20% HCl	100 ml 500 ml	CL01.1613.0100 CL01.1613.0500
Potassium			
Potassium	25.858 g KNO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1104.0100 CL01.1104.0500
Potassium oxide			
Potassium oxide	21.464 g KNO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1109.0100 CL01.1109.0500
Praseodymium			
Praseodymium	12.1 g Pr6O11 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1623.0100 CL01.1623.0500
Rhenium			
Rhenium	14.41 g NH4ReO4 / l H2O	100 ml 500 ml	CL01.1803.0100 CL01.1803.0500
Rhenium	10 g Re / l 2 to 5% HNO3	100 ml 500 ml	CL01.1804.0100 CL01.1804.0500
Rhodium			
Rhodium	25.58 g RhCl3.3H2O/ l 10 to 20% HCl	100 ml 500 ml	CL01.1813.0100 CL01.1813.0500
Rubidium			
Rubidium	13.6 g Rb2CO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1824.0100 CL01.1824.0500

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ICP Standards 10 000 mg/L

Ruthenium			
Ruthenium	26 g RuCl3.3H2O / l 10 to 20% HCl	100 ml 500 ml	CL01.1834.0100 CL01.1834.0500
Samarium			
Samarium	11.6 g Sm2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1903.0100 CL01.1903.0500
Scandium			
Scandium	15.34 g Sc2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1913.0100 CL01.1913.0500
Selenium			
Selenium	10 g Se / l 2 to 5% HNO3	100 ml 500 ml	CL01.1923.0100 CL01.1923.0500
Silicium			
Silicium	21.4 g SiO2 / l 2% KOH	100 ml 500 ml	CL01.1933.0100 CL01.1933.0500
Silicium	63.36 g (NH4)2SiF6 / l 5% HF	100 ml 500 ml	CL01.1943.0100 CL01.1943.0500
Silicium	10 g Si / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.1934.0100 CL01.1934.0500
Silver			
Silver	10 g Ag / l 2 to 5% HNO3	100 ml 500 ml	CL01.2603.0100 CL01.2603.0500
Sodium			
Sodium	36.977 g NaNO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1404.0100 CL01.1404.0500
Sodium oxide			
Sodium oxide	27.428 g NaNO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1409.0100 CL01.1409.0500
Strontium			
Strontium	16.849 g SrCO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1963.0100 CL01.1963.0500
Sulfur			
Sulfur	41.21 g (NH4)2SO4 / l H2O	100 ml 500 ml	CL01.2644.0100 CL01.2644.0500
Sulfur	30.586 g H2SO4 / l H2O	100 ml 500 ml	CL01.2643.0100 CL01.2643.0500
Tantalum			
Tantalum	10 g Ta / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.2004.0100 CL01.2004.0500
Tantalum	10 g Ta / l 5% HF	100 ml 500 ml	CL01.2003.0100 CL01.2003.0500
Tellurium			
Tellurium	10 g Te / l 20% HNO3 + traces HF	100 ml 500 ml	CL01.2014.0100 CL01.2014.0500
Tellurium	10 g Te / l 10 to 20% HCl	100 ml 500 ml	CL01.2015.0100 CL01.2015.0500

ICP Standards 10 000 mg/L

Terbium			
Terbium	11.8 g Tb4O7 / l 2 to 5% HNO3	100 ml 500 ml	CL01.2023.0100 CL01.2023.0500
Thallium			
Thallium	10 g Tl / l 2 to 5% HNO3	100 ml 500 ml	CL01.2033.0100 CL01.2033.0500
Thorium			
Thorium	24.6 g Th(NO3)4.5H2O / l 10% HNO3	100 ml 500 ml	CL01.2043.0100 CL01.2043.0500
Thulium			
Thulium	11.5 g Tm2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.2053.0100 CL01.2053.0500
Tin			
Tin	10 g Sn / l 10 to 20% HCl	100 ml 500 ml	CL01.2063.0100 CL01.2063.0500
Titanium			
Titanium	10 g Ti / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.2074.0100 CL01.2074.0500
Titanium	39.62 g TiCl4 / l 10 to 20% HCl	100 ml 500 ml	CL01.2073.0100 CL01.2073.0500
Tungsten			
Tungsten	10 g W / l 5% HF	100 ml 500 ml	CL01.2304.0100 CL01.2304.0500
Tungsten	10 g W / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.2333.0100 CL01.2333.0500
Tungsten	12.61 g WO3 / l 2% NH4OH	100 ml 500 ml	CL01.2303.0100 CL01.2303.0500
Vanadium			
Vanadium	10 g V / l 2 to 5% HNO3	100 ml 500 ml	CL01.2203.0100 CL01.2203.0500
Ytterbium			
Ytterbium	11.4 g Yb2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.2503.0100 CL01.2503.0500
Yttrium			
Yttrium	12.7 g Y2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.2513.0100 CL01.2513.0500
Zinc			
Zinc	10 g Zn / l 2 to 5% HCl	100 ml 500 ml	CL01.2614.0100 CL01.2614.0500
Zinc	10 g Zn / l 2 to 5% HNO3	100 ml 500 ml	CL01.2613.0100 CL01.2613.0500
Zirconium			
Zirconium	35.33 g ZrOCl2.8H2O / l 2 to 5% HCl	100 ml 500 ml	CL01.2633.0100 CL01.2633.0500

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A Certificate of Analysis is provided with each ICP standard stating:

- Actual certified concentration of the final solution
- Traceability to NIST
- Expiration date
- Trace impurities detected

ICP Single Element Standards 1 000 mg/L

Element	HNO_3	HCl	H_2O	NH_4OH	HF	HNO_3/HF	HNO_3/tart.	KOH	NaOH	Others
Al	CL01.0101	CL01.0102								
Sb		CL01.0121				CL01.0122	CL01.0162			
As	CL01.0133	CL01.0132						CL01.0131		
Ba	CL01.0201	CL01.0202								
Be	CL01.0212	CL01.0211								
Bi	CL01.0221									
B	CL01.0232		CL01.0231							
Cd	CL01.0301									
Ca	CL01.0311	CL01.0312								
Ce	CL01.0321									
Cs	CL01.0331									
Cr	CL01.0362	CL01.0361	CL01.0352							
Co	CL01.1121	CL01.1122								
Cu	CL01.1131	CL01.1132								
Dy	CL01.0431									
Er	CL01.0501									
Eu	CL01.0511									
Gd	CL01.0701									
Ga	CL01.0711									
Ge						CL01.0741		CL01.0721		
Au		CL01.0731								
Hf		CL01.0802			CL01.0801					
Ho	CL01.0821									
In	CL01.0921									
Ir		CL01.0931								
Fe	CL01.0901	CL01.0902								
La	CL01.1201	CL01.1202								
Pb	CL01.1221									
Li	CL01.1212	CL01.1211								
Lu	CL01.1231									
Mg	CL01.1301	CL01.1302								
Mn	CL01.1311	CL01.1312								
Hg	CL01.1151									
Mo				CL01.1332		CL01.1331				
Nd	CL01.1411									
Ni	CL01.1421	CL01.1422								
Nb					CL01.1431					
Os		CL01.1501								
Pd		CL01.1601								
P	CL01.0641		CL01.0631							
Pt		CL01.1611								
K	CL01.1101	CL01.1102								
Pr	CL01.1621									
Re	CL01.1802		CL01.1801							
Rh		CL01.1811								
Rb	CL01.1822	CL01.1821								
Ru		CL01.1831								
Sm	CL01.1901									
Sc	CL01.1911									
Se	CL01.1922	CL01.1921								
Si			CL01.1999		CL01.1945	CL01.1932		CL01.1931	CL01.1935	
Ag	CL01.2601									
Na	CL01.1401	CL01.1402								
Sr	CL01.1962	CL01.1961								
S			CL01.2641							CL01.2642
Ta					CL01.2001	CL01.2002				
Te		CL01.2012				CL01.2013		CL01.2011		
Tb	CL01.2022									
Tl										
Th	CL01.2041									
Tm	CL01.2051									
Sn		CL01.2061				CL01.2062				
Ti		CL01.2072	CL01.4601		CL01.2071	CL01.2075				
W				CL01.2302	CL01.2301	CL01.2331				
V	CL01.2201									
Yb	CL01.2501									
Y	CL01.2511									
Zn	CL01.2611	CL01.2612								
Zr		CL01.2632			CL01.2631	CL01.2672				

ICP Standards 1 000 mg/L

Aluminium			
Aluminium	1 g Al / l 2 to 5% HCl	100 ml 500 ml	CL01.0102.0100 CL01.0102.0500
Aluminium	1 g Al / l 2 to 5% HNO3	100 ml 500 ml	CL01.0101.0100 CL01.0101.0500
Aluminium(III) oxide			
Aluminium(III) oxide	0.529 g Al / l 2 to 5% HNO3	100 ml 500 ml	CL01.0141.0100 CL01.0141.0500
Antimony			
Antimony	1 g Sb / l 10 to 20% HCl	100 ml 500 ml	CL01.0121.0100 CL01.0121.0500
Antimony	1 g Sb / l 2 to 5% HNO3 + 0.5 % Tartaric Acid	100 ml 500 ml	CL01.0162.0100 CL01.0162.0500
Antimony	1 g Sb / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.0122.0100 CL01.0122.0500
Arsenicum			
Arsenicum	1.32 g As2O3 / l 2 to 5% HCl	100 ml 500 ml	CL01.0132.0100 CL01.0132.0500
Arsenicum	1.32 g As2O3 / l 2% KOH	100 ml 500 ml	CL01.0131.0100 CL01.0131.0500
Arsenicum	1.32 g As2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0133.0100 CL01.0133.0500
Barium			
Barium	1.44 g BaCO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0201.0100 CL01.0201.0500
Barium	1.44 g BaCO3 / l 2 to 5% HCl	100 ml 500 ml	CL01.0202.0100 CL01.0202.0500
Beryllium			
Beryllium	1 g Be / l 2 to 5% HCl	100 ml 500 ml	CL01.0211.0100 CL01.0211.0500
Beryllium	1 g Be / l 2 to 5% HNO3	100 ml 500 ml	CL01.0212.0100 CL01.0212.0500
Bismuth			
Bismuth	1 g Bi / l 2 to 5% HNO3	100 ml 500 ml	CL01.0221.0100 CL01.0221.0500
Boron			
Boron	5.719 g H3BO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0232.0100 CL01.0232.0500
Boron	5.719 g H3BO3 / l H2O	100 ml 500 ml	CL01.0231.0100 CL01.0231.0500
Cadmium			
Cadmium	1 g Cd / l 2 to 5% HNO3	100 ml 500 ml	CL01.0301.0100 CL01.0301.0500

ICP Standards 1 000 mg/L

Calcium			
Calcium	2.5 g CaCO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0311.0100 CL01.0311.0500
Calcium	2.5 g CaCO3 / l 2 to 5% HCl	100 ml 500 ml	CL01.0312.0100 CL01.0312.0500
Calcium oxide			
Calcium oxide	1.79 g CaCO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0313.0100 CL01.0313.0500
Cerium			
Cerium	1.23 g CeO2 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0321.0100 CL01.0321.0500
Cesium			
Cesium	1.226 g Cs2CO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0331.0100 CL01.0331.0500
Chromium			
Chromium	1 g Cr / l 2 to 5% HCl	100 ml 500 ml	CL01.0361.0100 CL01.0361.0500
Chromium	1 g Cr / l 2 to 5% HNO3	100 ml 500 ml	CL01.0362.0100 CL01.0362.0500
Chromium	2.829 g K2Cr2O7 / l H2O	100 ml 500 ml	CL01.0352.0100 CL01.0352.0500
Cobalt			
Cobalt	1 g Co / l 2 to 5% HCl	100 ml 500 ml	CL01.1122.0100 CL01.1122.0500
Cobalt	1 g Co / l 2 to 5% HNO3	100 ml 500 ml	CL01.1121.0100 CL01.1121.0500
Copper			
Copper	1 g Cu / l 2 to 5% HNO3	100 ml 500 ml	CL01.1131.0100 CL01.1131.0500
Copper	1.26 g CuO / l 2 to 5% HCl	100 ml 500 ml	CL01.1132.0100 CL01.1132.0500
Dysprosium			
Dysprosium	1.15 g Dy2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0431.0100 CL01.0431.0500
Erbium			
Erbium	1.15 g Er2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0501.0100 CL01.0501.0500
Europium			
Europium	1.16 g Eu2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0511.0100 CL01.0511.0500
Gadolinium			
Gadolinium	1.16 g Gd2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0701.0100 CL01.0701.0500
Gallium			
Gallium	1 g Ga / l 2 to 5% HNO3	100 ml 500 ml	CL01.0711.0100 CL01.0711.0500

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ICP Standards 1 000 mg/L

Germanium			
Germanium	1 g Ge / l 2 % KOH	100 ml 500 ml	CL01.0721.0100 CL01.0721.0500
Germanium	1 g Ge / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.0741.0100 CL01.0741.0500
Gold			
Gold	1 g Au / l 10 to 20% HCl	100 ml 500 ml	CL01.0731.0100 CL01.0731.0500
Hafnium			
Hafnium	2.294 g HfOCl2.8H2O / l 2 to 5% HCl	100 ml 500 ml	CL01.0802.0100 CL01.0802.0500
Hafnium	1 g Hf / l 5% HF	100 ml 500 ml	CL01.0801.0100 CL01.0801.0500
Holmium			
Holmium	1.15 g Ho2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0821.0100 CL01.0821.0500
Indium			
Indium	1 g In / l 2 to 5% HNO3	100 ml 500 ml	CL01.0921.0100 CL01.0921.0500
Iridium			
Iridium	1.84 g IrCl3.3H2O / l 10 to 20% HCl	100 ml 500 ml	CL01.0931.0100 CL01.0931.0500
Iron			
Iron	1 g Fe / l 2 to 5% HCl	100 ml 500 ml	CL01.0902.0100 CL01.0902.0500
Iron	1 g Fe / l 2 to 5% HNO3	100 ml 500 ml	CL01.0901.0100 CL01.0901.0500
Iron(III) oxide			
Iron(III) oxide	0.6994 g Fe / l 2 to 5% HNO3	100 ml 500 ml	CL01.0941.0100 CL01.0941.0500
Lanthanum			
Lanthanum	1.18 g La2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1201.0100 CL01.1201.0500
Lanthanum	1.18 g La2O3 / l 2 to 5% HCl	100 ml 500 ml	CL01.1202.0100 CL01.1202.0500
Lead			
Lead	1 g Pb / l 2 to 5% HNO3	100 ml 500 ml	CL01.1221.0100 CL01.1221.0500
Lithium			
Lithium	5.33 g Li2CO3 / l 2 to 5% HCl	100 ml 500 ml	CL01.1211.0100 CL01.1211.0500
Lithium	5.33 g Li2CO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1212.0100 CL01.1212.0500
Lutetium			
Lutetium	1.14 g Lu2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1231.0100 CL01.1231.0500

ICP Standards 1 000 mg/L

Magnesium			
Magnesium	1 g Mg / l 2 to 5% HNO3	100 ml 500 ml	CL01.1301.0100 CL01.1301.0500
Magnesium	1 g Mg / l 2 to 5% HCl	100 ml 500 ml	CL01.1302.0100 CL01.1302.0500
Magnesium oxide			
Magnesium oxide	0.603 g Mg / l 2 to 5% HNO3	100 ml 500 ml	CL01.1303.0100 CL01.1303.0500
Manganese			
Manganese	1 g Mn / l 2 to 5% HCl	100 ml 500 ml	CL01.1312.0100 CL01.1312.0500
Manganese	1 g Mn / l 2 to 5% HNO3	100 ml 500 ml	CL01.1311.0100 CL01.1311.0500
Manganese(III) oxide			
Manganese(III) oxide	0.696 g Mn / l 2 to 5% HNO3	100 ml 500 ml	CL01.1341.0100 CL01.1341.0500
Mercury			
Mercury	1 g Hg / l 2 to 5% HNO3	100 ml 500 ml	CL01.1151.0100 CL01.1151.0500
Molybdenum			
Molybdenum	2.043 g (NH4)2MoO4 / l 2% NH4OH	100 ml 500 ml	CL01.1332.0100 CL01.1332.0500
Molybdenum	1 g Mo / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.1331.0100 CL01.1331.0500
Neodymium			
Neodymium	1.17 g Nd2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1411.0100 CL01.1411.0500
Nickel			
Nickel	1 g Ni / l 2 to 5% HNO3	100 ml 500 ml	CL01.1421.0100 CL01.1421.0500
Nickel	1.273 g NiO / l 2 to 5% HCl	100 ml 500 ml	CL01.1422.0100 CL01.1422.0500
Niobium			
Niobium	1 g Nb / l 5% HF	100 ml 500 ml	CL01.1431.0100 CL01.1431.0500
Osmium			
Osmium	2.31 g (NH4)2OsCl6 / l 2 to 5% HCl	100 ml 500 ml	CL01.1501.0100 CL01.1501.0500
Palladium			
Palladium	1 g Pd / l 10 to 20% HCl	100 ml 500 ml	CL01.1601.0100 CL01.1601.0500

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ICP Standards 1 000 mg/L

Phosphorus			
Phosphorus	3.164 g H3PO4 / l 2 to 5% HNO3	100 ml 500 ml	CL01.0641.0100 CL01.0641.0500
Phosphorus	4.264 g (NH4)2HPO4 / l H2O	100 ml 500 ml	CL01.0631.0100 CL01.0631.0500
Phosphorus	4.393 g KH2PO4 / l H2O	100 ml 500 ml	CL01.0646.0100 CL01.0646.0500
Phosphorus pentoxide			
Phosphorus pentoxide	1.381 g H3PO4 / l H2O	100 ml 500 ml	CL01.0621.0100 CL01.0621.0500
Platinum			
Platinum	1 g Pt / l 10 to 20% HCl	100 ml 500 ml	CL01.1611.0100 CL01.1611.0500
Potassium			
Potassium	1.907 g KCl / l 2 to 5% HCl	100 ml 500 ml	CL01.1102.0100 CL01.1102.0500
Potassium	2.586 g KNO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1101.0100 CL01.1101.0500
Potassium oxide			
Potassium oxide	2.15 g KNO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1103.0100 CL01.1103.0500
Praseodymium			
Praseodymium	1.21 g Pr6O11 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1621.0100 CL01.1621.0500
Rhenium			
Rhenium	1 g Re / l 2 to 5% HNO3	100 ml 500 ml	CL01.1802.0100 CL01.1802.0500
Rhenium	1.441 g NH4ReO4 / l H2O	100 ml 500 ml	CL01.1801.0100 CL01.1801.0500
Rhodium			
Rhodium	2.558 g RhCl3.3H2O/ l 10 to 20% HCl	100 ml 500 ml	CL01.1811.0100 CL01.1811.0500
Rubidium			
Rubidium	1.36 g Rb2CO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1822.0100 CL01.1822.0500
Rubidium	1.36 g Rb2CO3 / l 2 to 5% HCl	100 ml 500 ml	CL01.1821.0100 CL01.1821.0500
Ruthenium			
Ruthenium	2.6 g RuCl3.3H2O / l 10 to 20% HCl	100 ml 500 ml	CL01.1831.0100 CL01.1831.0500
Samarium			
Samarium	1.16 g Sm2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1901.0100 CL01.1901.0500
Scandium			
Scandium	1.534 g Sc2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1911.0100 CL01.1911.0500

ICP Standards 1 000 mg/L

Selenium			
Selenium	1 g Se / l 10% HCl	100 ml 500 ml 5 l	CL01.1921.0100 CL01.1921.0500 CL01.1921.5000
Selenium	1 g Se / l 2 to 5% HNO3	100 ml 500 ml	CL01.1922.0100 CL01.1922.0500
Silicium			
Silicium	6.336 g (NH4)2SiF6 / l H2O	100 ml 500 ml	CL01.1999.0100 CL01.1999.0500
Silicium	2.14 g SiO2 / l 2% KOH	100 ml 500 ml	CL01.1931.0100 CL01.1931.0500
Silicium	1 g Si / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.1932.0100 CL01.1932.0500
Silicium	2.14 g SiO2 / l 2% NaOH	100 ml 500 ml	CL01.1935.0100 CL01.1935.0500
Silicium	6.336 g (NH4)2SiF6 / l 5% HF	100 ml 500 ml	CL01.1945.0100 CL01.1945.0500
Silicium dioxide			
Silicium dioxide	2.965 g (NH4)2SiF6 / l 5% HF	100 ml 500 ml	CL01.1942.0100 CL01.1942.0500
Silver			
Silver	1 g Ag / l 2 to 5% HNO3	100 ml 500 ml	CL01.2601.0100 CL01.2601.0500
Sodium			
Sodium	2.542 g NaCl / l 2 to 5% HCl	100 ml 500 ml	CL01.1402.0100 CL01.1402.0500
Sodium	3.698 g NaNO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1401.0100 CL01.1401.0500
Sodium oxide			
Sodium oxide	2.75 g NaNO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1403.0100 CL01.1403.0500
Strontium			
Strontium	1.685 g SrCO3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.1962.0100 CL01.1962.0500
Strontium	1.685 g SrCO3 / l 2 to 5% HCl	100 ml 500 ml	CL01.1961.0100 CL01.1961.0500
Sulfur			
Sulfur	4.121 g (NH4)2SO4 / l H2O	100 ml 500 ml	CL01.2641.0100 CL01.2641.0500
Sulfur	3.059 g H2SO4 / l H2O	100 ml 500 ml	CL01.2642.0100 CL01.2642.0500
Tantalum			
Tantalum	1 g Ta / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.2002.0100 CL01.2002.0500
Tantalum	1 g Ta / l 5% HF	100 ml 500 ml	CL01.2001.0100 CL01.2001.0500

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ICP Standards 1 000 mg/L

Tellurium			
Tellurium	1 g Te / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.2013.0100 CL01.2013.0500
Tellurium	1 g Te / l 2% KOH	100 ml 500 ml	CL01.2011.0100 CL01.2011.0500
Tellurium	1 g Te / l 10 to 20% HCl	100 ml 500 ml	CL01.2012.0100 CL01.2012.0500
Terbium			
Terbium	1.18 g Tb4O7 / l 2 to 5% HNO3	100 ml 500 ml	CL01.2022.0100 CL01.2022.0500
Thallium			
Thallium	1 g Tl / l 2 to 5% HNO3	100 ml 500 ml	CL01.2031.0100 CL01.2031.0500
Thorium			
Thorium	2.46 g Th(NO3)4.5H2O / l 10% HNO3	100 ml 500 ml	CL01.2041.0100 CL01.2041.0500
Thulium			
Thulium	1.15 g Tm2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.2051.0100 CL01.2051.0500
Tin			
Tin	1 g Sn / l 1% HF & 2% HNO3	100 ml 500 ml	CL01.2062.0100 CL01.2062.0500
Tin	1 g Sn / l 10 to 20% HCl	100 ml 500 ml	CL01.2061.0100 CL01.2061.0500
Titanium			
Titanium	4.1343 g (NH4)2TiF6 / l H2O	100 ml 500 ml	CL01.4601.0100 CL01.4601.0500
Titanium	1 g Ti / l 5% HF	100 ml 500 ml	CL01.2071.0100 CL01.2071.0500
Titanium	3.962 g TiCl4 / l 10 to 20% HCl	100 ml 500 ml	CL01.2072.0100 CL01.2072.0500
Titanium	1 g Ti / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.2075.0100 CL01.2075.0500
Tungsten			
Tungsten	1 g W / l 2 to 5% HNO3 + traces HF	100 ml 500 ml	CL01.2331.0100 CL01.2331.0500
Tungsten	1.261 g WO3 / l 2% NH4OH	100 ml 500 ml	CL01.2302.0100 CL01.2302.0500
Tungsten	1 g W / l 5% HF	100 ml 500 ml	CL01.2301.0100 CL01.2301.0500
Vanadium			
Vanadium	1 g V / l 2 to 5% HNO3	100 ml 500 ml	CL01.2201.0100 CL01.2201.0500
Ytterbium			
Ytterbium	1.14 g Yb2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.2501.0100 CL01.2501.0500

ICP Standards 1 000 mg/L

Yttrium

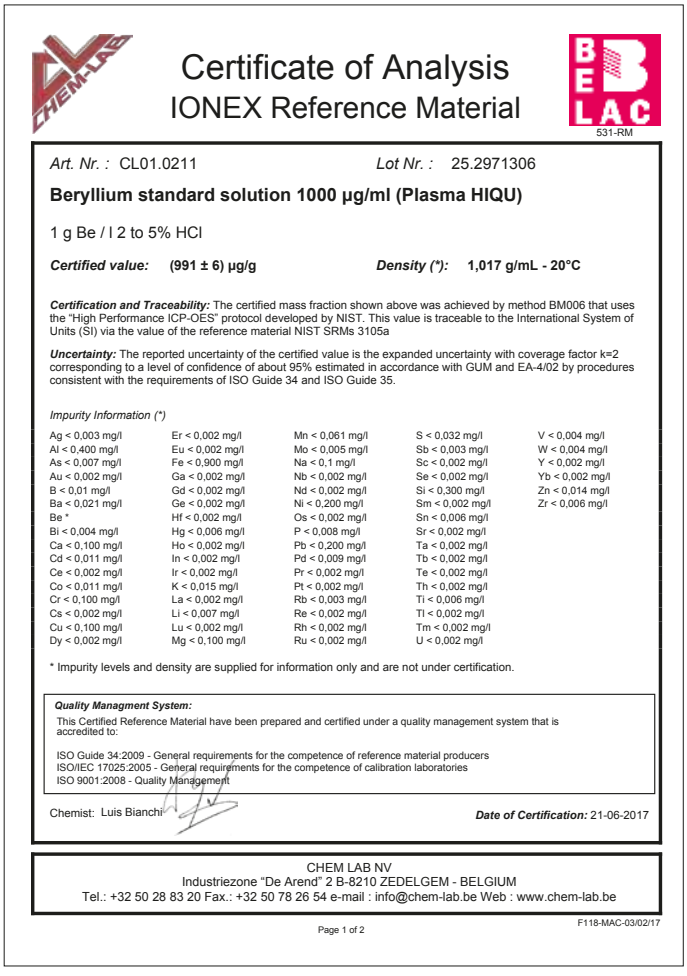
Yttrium	1.27 g Y2O3 / l 2 to 5% HNO3	100 ml 500 ml	CL01.2511.0100 CL01.2511.0500

Zinc

Zinc	1 g Zn / l 2 to 5% HCl	100 ml 500 ml	CL01.2612.0100 CL01.2612.0500
Zinc	1 g Zn / l 2 to 5% HNO3	100 ml 500 ml	CL01.2611.0100 CL01.2611.0500

Zirconium

Zirconium	3.533 g ZrOCl2.8H2O / l 2 to 5% HCl	100 ml 500 ml	CL01.2632.0100 CL01.2632.0500
Zirconium	1 g Zr / l 5% HF	100 ml 500 ml	CL01.2631.0100 CL01.2631.0500
Zirconium	1 g Zr / l 2 5% HNO3 + traces HF	100 ml 500 ml	CL01.2672.0100 CL01.2672.0500



Certificate of Analysis
IONEX Reference Material

531-RM

Art. Nr. : CL01.0211 *Lot Nr. :* 25.2971306

Beryllium standard solution 1000 µg/ml (Plasma HIQU)

1 g Be / l 2 to 5% HCl

Certified value: **(991 ± 6) µg/g** ***Density (*):*** **1,017 g/mL - 20°C**

Certification and Traceability: The certified mass fraction shown above was achieved by method BM006 that uses the "High Performance ICP-OES" protocol developed by NIST. This value is traceable to the International System of Units (SI) via the value of the reference material NIST SRMs 3105a

Uncertainty: The reported uncertainty of the certified value is the expanded uncertainty with coverage factor k=2 corresponding to a level of confidence of about 95% estimated in accordance with GUM and EA-4/02 by procedures consistent with the requirements of ISO Guide 34 and ISO Guide 35.

Impurity Information (*)

Ag < 0,003 mg/l	Er < 0,002 mg/l	Mn < 0,061 mg/l	S < 0,032 mg/l	V < 0,004 mg/l
Al < 0,400 mg/l	Eu < 0,002 mg/l	Mo < 0,005 mg/l	Sb < 0,003 mg/l	W < 0,004 mg/l
As < 0,007 mg/l	Fe < 0,900 mg/l	Na < 0,1 mg/l	Sc < 0,002 mg/l	Y < 0,002 mg/l
Au < 0,002 mg/l	Ga < 0,002 mg/l	Nb < 0,002 mg/l	Se < 0,002 mg/l	Yb < 0,002 mg/l
B < 0,01 mg/l	Gd < 0,002 mg/l	Nd < 0,002 mg/l	Si < 0,300 mg/l	Zn < 0,014 mg/l
Ba < 0,021 mg/l	Ge < 0,002 mg/l	Ni < 0,200 mg/l	Sm < 0,002 mg/l	Zr < 0,006 mg/l
Be *	Hf < 0,002 mg/l	Os < 0,002 mg/l	Sn < 0,006 mg/l	
Bi < 0,004 mg/l	Hg < 0,006 mg/l	P < 0,008 mg/l	Sr < 0,002 mg/l	
Ca < 0,100 mg/l	Ho < 0,002 mg/l	Pb < 0,200 mg/l	Ta < 0,002 mg/l	
Cd < 0,011 mg/l	In < 0,002 mg/l	Pd < 0,009 mg/l	Tb < 0,002 mg/l	
Ce < 0,002 mg/l	Ir < 0,002 mg/l	Pr < 0,002 mg/l	Te < 0,002 mg/l	
Co < 0,011 mg/l	K < 0,015 mg/l	Pt < 0,002 mg/l	Th < 0,002 mg/l	
Cr < 0,100 mg/l	La < 0,002 mg/l	Rb < 0,003 mg/l	Ti < 0,006 mg/l	
Cs < 0,002 mg/l	Li < 0,007 mg/l	Re < 0,002 mg/l	Tl < 0,002 mg/l	
Cu < 0,100 mg/l	Lu < 0,002 mg/l	Rh < 0,002 mg/l	Tm < 0,002 mg/l	
Dy < 0,002 mg/l	Mg < 0,100 mg/l	Ru < 0,002 mg/l	U < 0,002 mg/l	

* Impurity levels and density are supplied for information only and are not under certification.

Quality Managment System:
This Certified Reference Material have been prepared and certified under a quality management system that is accredited to:

ISO Guide 34:2009 - General requirements for the competence of reference material producers
ISO/IEC 17025:2005 - General requirements for the competence of calibration laboratories
ISO 9001:2008 - Quality Management

Chemist: Luis Bianchi

Date of Certification: 21-06-2017

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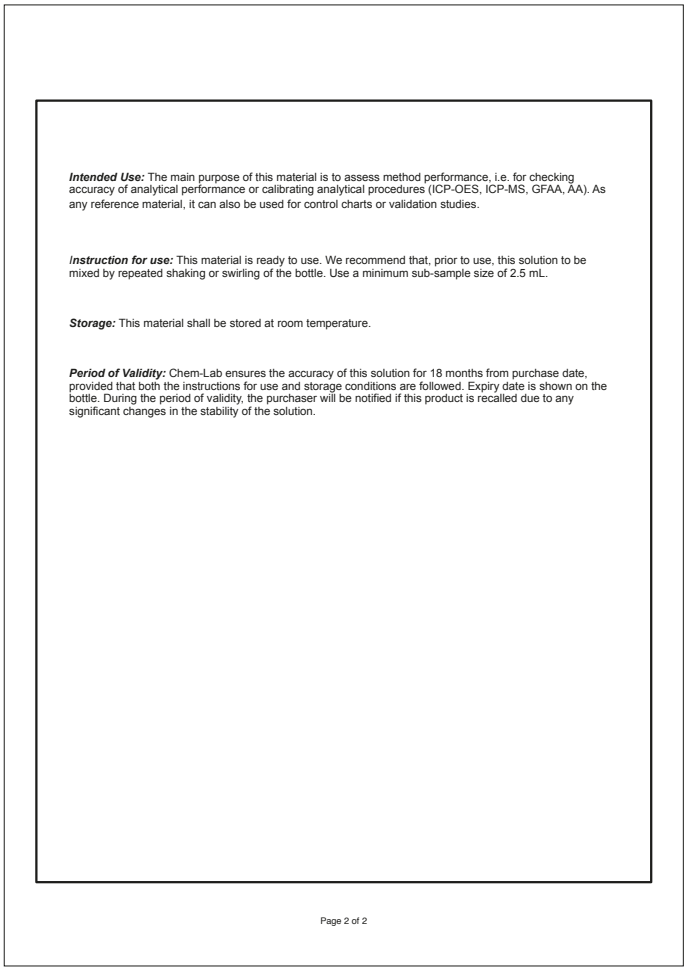
F118-MAC-03/02/17

Page 1 of 2



Intended Use: The main purpose of this material is to assess method performance, i.e. for checking accuracy of analytical performance or calibrating analytical procedures (ICP-OES, ICP-MS, GFAA, AA). As any reference material, it can also be used for control charts or validation studies.

Instruction for use: This material is ready to use. We recommend that, prior to use, this solution to be mixed by repeated shaking or swirling of the bottle. Use a minimum sub-sample size of 2.5 mL.

Storage: This material shall be stored at room temperature.

Period of Validity: Chem-Lab ensures the accuracy of this solution for 18 months from purchase date, provided that both the instructions for use and storage conditions are followed. Expiry date is shown on the bottle. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Page 2 of 2

A Certificate of Analysis is provided with each ICP standard stating:

- Actual certified concentration of the final solution
- Traceability to NIST
- Expiration date
- Trace impurities detected

ICP Standards 100 mg/L

Aluminium			
Aluminium	100 mg Al / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0101.100.0100 CL01.0101.100.0500
Antimony			
Antimony	100 mg Sb / l 10 to 20% HCl (Keep Cool !)	100 ml 500 ml	CL01.0121.100.0100 CL01.0121.100.0500
Arsenicum			
Arsenicum	132 mg As2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0133.100.0100 CL01.0133.100.0500
Barium			
Barium	144 mg BaCO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0201.100.0100 CL01.0201.100.0500
Beryllium			
Beryllium	100 mg Be / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0212.100.0100 CL01.0212.100.0500
Boron			
Boron	571.9 mg H3BO3 / l H2O (Keep Cool !)	100 ml 500 ml	CL01.0231.100.0100 CL01.0231.100.0500
Cadmium			
Cadmium	100 mg Cd / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0301.100.0100 CL01.0301.100.0500
Calcium			
Calcium	250 mg CaCO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0311.100.0100 CL01.0311.100.0500
Cerium			
Cerium	123 mg CeO2 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0321.100.0100 CL01.0321.100.0500
Cesium			
Cesium	122.6 mg Cs2CO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0331.100.0100 CL01.0331.100.0500
Chromium			
Chromium	100 mg Cr / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0362.100.0100 CL01.0362.100.0500
Cobalt			
Cobalt	100 mg Co / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1121.100.0100 CL01.1121.100.0500
Copper			
Copper	100 mg Cu / l 1% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1131.100.0100 CL01.1131.100.0500
Dysprosium			
Dysprosium	115 mg Dy2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0431.100.0100 CL01.0431.100.0500
Erbium			
Erbium	115 mg Er2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0501.100.0100 CL01.0501.100.0500

ICP Standards 100 mg/L

Europium			
Europium	116 mg Eu2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0511.100.0100 CL01.0511.100.0500
Gadolinium			
Gadolinium	116 mg Gd2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0701.100.0100 CL01.0701.100.0500
Gallium			
Gallium	100 mg Ga / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0711.100.0100 CL01.0711.100.0500
Germanium			
Germanium	100 mg Ge / l 2 % KOH (Keep Cool !)	100 ml 500 ml	CL01.0721.100.0100 CL01.0721.100.0500
Germanium	100 mg Ge / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.0741.100.0100 CL01.0741.100.0500
Gold			
Gold	100 mg Au / l 10 to 20% HCl (Keep Cool !)	100 ml	CL01.0731.100.0100
Hafnium			
Hafnium	229.4 mg HfOCl2.8H2O / l 2 to 5% HCl (Keep Cool !)	100 ml 500 ml	CL01.0802.100.0100 CL01.0802.100.0500
Hafnium	100 mg Hf / l 5% HF (Keep Cool !)	100 ml 500 ml	CL01.0801.100.0100 CL01.0801.100.0500
Holmium			
Holmium	115 mg Ho2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0821.100.0100 CL01.0821.100.0500
Indium			
Indium	100 mg In / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0921.100.0100 CL01.0921.100.0500
Iridium			
Iridium	184 mg IrCl3.3H2O / l 10 to 20% HCl (Keep Cool !)	100 ml 500 ml	CL01.0931.100.0100 CL01.0931.100.0500
Iron			
Iron	100 mg Fe / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0901.100.0100 CL01.0901.100.0500
Lanthanum			
Lanthanum	118 mg La2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1201.100.0100 CL01.1201.100.0500
Lead			
Lead	100 mg Pb / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1221.100.0100 CL01.1221.100.0500
Lithium			
Lithium	533 mg Li2CO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1212.100.0100 CL01.1212.100.0500
Lutetium			
Lutetium	114 mg Lu2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1231.100.0100 CL01.1231.100.0500

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ICP Standards 100 mg/L

Magnesium			
Magnesium	100 mg Mg / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1301.100.0100 CL01.1301.100.0500
Manganese			
Manganese	100 mg Mn / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1311.100.0100 CL01.1311.100.0500
Mercury			
Mercury	100 mg Hg / l 0.1 mol HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1151.100.0100 CL01.1151.100.0500
Molybdenum			
Molybdenum	100 mg Mo / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.1331.100.0100 CL01.1331.100.0500
Neodymium			
Neodymium	117 mg Nd2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1411.100.0100 CL01.1411.100.0500
Nickel			
Nickel	100 mg Ni / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1421.100.0100 CL01.1421.100.0500
Niobium			
Niobium	100 mg Nb / l 5% HF (Keep Cool !)	100 ml 500 ml	CL01.1431.100.0100 CL01.1431.100.0500
Osmium			
Osmium	231 mg (NH4)2OsCl6 / l 2 to 5% HCl (Keep Cool !)	100 ml 500 ml	CL01.1501.100.0100 CL01.1501.100.0500
Palladium			
Palladium	100 mg Pd / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1602.100.0100 CL01.1602.100.0500
Phosphorus			
Phosphorus	316.4 mg H3PO4 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0641.100.0100 CL01.0641.100.0500
Platinum			
Platinum	100 mg Pt / l 10 to 20% HCl (Keep Cool !)	100 ml 500 ml	CL01.1611.100.0100 CL01.1611.100.0500
Potassium			
Potassium	258.6 mg KNO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1101.100.0100 CL01.1101.100.0500
Praseodymium			
Praseodymium	121 mg Pr6O11 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1621.100.0100 CL01.1621.100.0500
Rhenium			
Rhenium	100 mg Re / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1802.100.0100 CL01.1802.100.0500
Rhodium			
Rhodium	255.8 mg RhCl3.3H2O/ l 10 to 20% HCl (Keep Cool !)	100 ml 500 ml	CL01.1811.100.0100 CL01.1811.100.0500

ICP Standards 100 mg/L

Rubidium			
Rubidium	136 mg Rb2CO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1822.100.0100 CL01.1822.100.0500
Ruthenium			
Ruthenium	260 mg RuCl3.3H2O / l 5% HCl (Keep Cool !)	100 ml 500 ml	CL01.1831.100.0100 CL01.1831.100.0500
Samarium			
Samarium	116 mg Sm2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1901.100.0100 CL01.1901.100.0500
Scandium			
Scandium	153.4 mg Sc2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1911.100.0100 CL01.1911.100.0500
Selenium			
Selenium	100 mg Se / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1922.100.0100 CL01.1922.100.0500
Silicium			
Silicium	100 mg Si / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.1932.100.0100 CL01.1932.100.0500
Silver			
Silver	100 mg Ag / l 10% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2601.100.0100 CL01.2601.100.0500
Sodium			
Sodium	369.8 mg NaNO3 / l 1% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1401.100.0100 CL01.1401.100.0500
Sulfur			
Sulfur	305.9 mg H2SO4 / l H2O (Keep Cool !)	100 ml 500 ml	CL01.2642.100.0100 CL01.2642.100.0500
Tantalum			
Tantalum	100 mg Ta / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.2002.100.0100 CL01.2002.100.0500
Tellurium			
Tellurium	100 mg Te / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.2013.100.0100 CL01.2013.100.0500
Terbium			
Terbium	118 mg Tb4O7 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2022.100.0100 CL01.2022.100.0500
Thallium			
Thallium	100 mg Tl / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2031.100.0100 CL01.2031.100.0500
Thorium			
Thorium	246 mg Th(NO3)4.5H2O / l 10% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2041.100.0100 CL01.2041.100.0500
Thulium			
Thulium	115 mg Tm2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2051.100.0100 CL01.2051.100.0500

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ICP Standards 100 mg/L

Tin				
Tin	100 mg Sn / l 1% HF & 2% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2062.100.0100 CL01.2062.100.0500	
Titanium				
Titanium	100 mg Ti / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.2075.100.0100 CL01.2075.100.0500	
Tungsten				
Tungsten	100 mg W / l 5% HF (Keep Cool !)	100 ml 500 ml	CL01.2301.100.0100 CL01.2301.100.0500	
Vanadium				
Vanadium	100 mg V / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2201.100.0100 CL01.2201.100.0500	
Ytterbium				
Ytterbium	114 mg Yb2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2501.100.0100 CL01.2501.100.0500	
Yttrium				
Yttrium	127 mg Y2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2511.100.0100 CL01.2511.100.0500	
Zinc				
Zinc	100 mg Zn / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2611.100.0100 CL01.2611.100.0500	
Zirconium				**NEW**
Zirconium	100 mg Zr / l 2 à 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.2672.100.0100 CL01.2672.100.0500	

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ICP Standards 10 mg/L

Arsenicum			
Arsenicum	13.2 mg As2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0133.010.0100 CL01.0133.010.0500
Aluminium			
Aluminium	10 mg Al / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0101.010.0100 CL01.0101.010.0500
Antimony			
Antimony	10 mg Sb / l 10 to 20% HCl (Keep Cool !)	100 ml 500 ml	CL01.0121.010.0100 CL01.0121.010.0500
Barium			
Barium	14.4 mg BaCO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0201.010.0100 CL01.0201.010.0500
Beryllium			
Beryllium	10 mg Be / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0212.010.0100 CL01.0212.010.0500
Bismuth			
Bismuth	10 mg Bi / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0221.010.0100 CL01.0221.010.0500
Boron			
Boron	57.19 mg H3BO3 / l H2O (Keep Cool !)	100 ml 500 ml	CL01.0231.010.0100 CL01.0231.010.0500
Cadmium			
Cadmium	10 mg Cd / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0301.010.0100 CL01.0301.010.0500
Calcium			
Calcium	25 mg CaCO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0311.010.0100 CL01.0311.010.0500
Cerium			
Cerium	12.3 mg CeO2 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0321.010.0100 CL01.0321.010.0500
Cesium			
Cesium	12.26 mg Cs2CO3 / l 2 to 5% HNO (Keep Cool !)	100 ml 500 ml	CL01.0331.010.0100 CL01.0331.010.0500
Chromium			
Chromium	10 mg Cr / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0362.010.0100 CL01.0362.010.0500
Cobalt			
Cobalt	10 mg Co / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1121.010.0100 CL01.1121.010.0500
Copper			
Copper	10 mg Cu / l 1% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1131.010.0100 CL01.1131.010.0500
Dysprosium			
Dysprosium	11.5 mg Dy2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0431.010.0100 CL01.0431.010.0500

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ICP Standards 10 mg/L

Erbium			
Erbium	11.5 mg Er_2O_3 / l 2 to 5% HNO_3 (Keep Cool !)	100 ml 500 ml	CL01.0501.010.0100 CL01.0501.010.0500
Europium			
Europium	11.6 mg Eu_2O_3 / l 2 to 5% HNO_3 (Keep Cool !)	100 ml 500 ml	CL01.0511.010.0100 CL01.0511.010.0500
Gadolinium			
Gadolinium	11.6 mg Gd_2O_3 / l 2 to 5% HNO_3 (Keep Cool !)	100 ml 500 ml	CL01.0701.010.0100 CL01.0701.010.0500
Gallium			
Gallium	10 mg Ga / l 2 to 5% HNO_3 (Keep Cool !)	100 ml 500 ml	CL01.0711.010.0100 CL01.0711.010.0500
Germanium			
Germanium	10 mg Ge / l 2 % KOH (Keep Cool !)	100 ml 500 ml	CL01.0721.010.0100 CL01.0721.010.0500
Germanium	10 mg Ge / l 2 to 5% HNO_3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.0741.010.0100 CL01.0741.010.0500
Gold			
Gold	10 mg Au / l 10 to 20% HCl (Keep Cool !)	100 ml 500 ml	CL01.0731.010.0100 CL01.0731.010.0500
Hafnium			
Hafnium	10 mg Hf / l 5% HF (Keep Cool !)	100 ml 500 ml	CL01.0801.010.0100 CL01.0801.010.0500
Hafnium	22.94 mg $HfOCl_2.8H_2O$ / l 2 to 5% HCl (Keep Cool !)l	100 ml 500 ml	CL01.0802.010.0100 CL01.0802.010.0500
Holmium			
Holmium	11.5 mg Ho_2O_3 / l 2 to 5% HNO_3 (Keep Cool !)	100 ml 500 ml	CL01.0821.010.0100 CL01.0821.010.0500
Indium			
Indium	10 mg In / l 2 to 5% HNO_3 (Keep Cool !)	100 ml 500 ml	CL01.0921.010.0100 CL01.0921.010.0500
Iridium			
Iridium	18.4 mg $IrCl_3.3H_2O$ / l 10 to 20% HCl (Keep Cool !)	100 ml 500 ml	CL01.0931.010.0100 CL01.0931.010.0500
Iron			
Iron	10 mg Fe / l 2 to 5% HNO_3 (Keep Cool !)	100 ml 500 ml	CL01.0901.010.0100 CL01.0901.010.0500
Lanthanum			
Lanthanum	11.8 mg La_2O_3 / l 2 to 5% HNO_3 (Keep Cool !)	100 ml 500 ml	CL01.1201.010.0100 CL01.1201.010.0500
Lead			
Lead	10 mg Pb / l 2 to 5% HNO_3 (Keep Cool !)	100 ml 500 ml	CL01.1221.010.0100 CL01.1221.010.0500

ICP Standards 10 mg/L

Lithium			
Lithium	53.3 mg Li2CO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1212.010.0100 CL01.1212.010.0500
Lutetium			
Lutetium	11.4 mg Lu2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1231.010.0100 CL01.1231.010.0500
Magnesium			
Magnesium	10 mg Mg / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1301.010.0100 CL01.1301.010.0500
Manganese			
Manganese	10 mg Mn / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1311.010.0100 CL01.1311.010.0500
Mercury			**NEW**
Mercury	10 mg Hg / l 10% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1151.010.0100 CL01.1151.010.0500
Molybdenum			
Molybdenum	10 mg Mo / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.1331.010.0100 CL01.1331.010.0500
Neodymium			
Neodymium	11.7 mg Nd2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1411.010.0100 CL01.1411.010.0500
Nickel			
Nickel	10 mg Ni / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1421.010.0100 CL01.1421.010.0500
Niobium			
Niobium	10 mg Nb / l 5% HF (Keep Cool !)	100 ml 500 ml	CL01.1431.010.0100 CL01.1431.010.0500
Osmium			
Osmium	23.1 mg (NH4)2OsCl6 / l 2 to 5% HCl (Keep Cool !)	100 ml 500 ml	CL01.1501.010.0100 CL01.1501.010.0500
Palladium			
Palladium	10 mg Pd / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1602.010.0100 CL01.1602.010.0500
Phosphorus			
Phosphorus	31.64 mg H3PO4 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.0641.010.0100 CL01.0641.010.0500
Platinum			
Platinum	10 mg Pt / l 10 to 20% HCl (Keep Cool !)	100 ml 500 ml	CL01.1611.010.0100 CL01.1611.010.0500
Potassium			
Potassium	25.6 mg KNO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1101.010.0100 CL01.1101.010.0500
Praseodymium			
Praseodymium	12.1 mg Pr6O11 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1621.010.0100 CL01.1621.010.0500

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ICP Standards 10 mg/L

Rhenium			
Rhenium	10 mg Re / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1802.010.0100 CL01.1802.010.0500
Rhodium			
Rhodium	25.58 mg RhCl3.3H2O/ l 10 to 20% HCl (Keep Cool !)	100 ml 500 ml	CL01.1811.010.0100 CL01.1811.010.0500
Rubidium			
Rubidium	13.6 mg Rb2CO3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1822.010.0100 CL01.1822.010.0500
Ruthenium			
Ruthenium	26 mg RuCl3.3H2O / l 5% HCl (Keep Cool !)	100 ml 500 ml	CL01.1831.010.0100 CL01.1831.010.0500
Samarium			
Samarium	11.6 mg Sm2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1901.010.0100 CL01.1901.010.0500
Scandium			
Scandium	15.34 mg Sc2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1911.010.0100 CL01.1911.010.0500
Selenium			
Selenium	10 mg Se / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1922.010.0100 CL01.1922.010.0500
Silicium			
Silicium	10 mg Si / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.1932.010.0100 CL01.1932.010.0500
Silver			
Silver	10 mg Ag / l 10% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2601.010.0100 CL01.2601.010.0500
Sodium			
Sodium	36.98 mg NaNO3 / l 1% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.1401.010.0100 CL01.1401.010.0500
Sulfur			
Sulfur	30.59 mg H2SO4 / l H2O (Keep Cool !)	100 ml 500 ml	CL01.2642.010.0100 CL01.2642.010.0500
Tantalum			
Tantalum	10 mg Ta / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.2002.010.0100 CL01.2002.010.0500
Tellurium			
Tellurium	10 mg Te / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.2013.010.0100 CL01.2013.010.0500
Terbium			
Terbium	11.8 mg Tb4O7 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2022.010.0100 CL01.2022.010.0500
Thallium			
Thallium	10 mg Tl / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2031.010.0100 CL01.2031.010.0500

ICP Standards 10 mg/L

Thorium			
Thorium	24.6 mg Th(NO3)4.5H2O / l 10% HNO3 (Keep Cool !)	100 ml	CL01.2041.010.0100
Thulium			
Thulium	11.5 mg Tm2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2051.010.0100 CL01.2051.010.0500
Tin			
Tin	10 mg Sn / l 1% HF & 2% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2062.010.0100 CL01.2062.010.0500
Titanium			
Titanium	10 mg Ti / l 2 to 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.2075.010.0100 CL01.2075.010.0500
Tungsten			
Tungsten	10 mg W / l 5% HF (Keep Cool !)	100 ml 500 ml	CL01.2301.010.0100 CL01.2301.010.0500
Vanadium			
Vanadium	10 mg V / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2201.010.0100 CL01.2201.010.0500
Ytterbium			
Ytterbium	11.4 mg Yb2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2501.010.0100 CL01.2501.010.0500
Yttrium			
Yttrium	12.7 mg Y2O3 / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2511.010.0100 CL01.2511.010.0500
Zinc			
Zinc	10 mg Zn / l 2 to 5% HNO3 (Keep Cool !)	100 ml 500 ml	CL01.2611.010.0100 CL01.2611.010.0500
Zirconium			**NEW**
Zirconium	10 mg Zr / l 2 à 5% HNO3 + traces HF (Keep Cool !)	100 ml 500 ml	CL01.2672.010.0100 CL01.2672.010.0500

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Quality Control Standards & Second Source Multi Element Standards

Multi Element ICP QC Standard sol. (QCS-27) (27E) — CL01.13612

*ICP Quality Control Standard (QCS) Contains 27 elements in 2 to 5% HNO3 + traces HF (QCS-27)

Density 1.02 g/ml **UN** 3264
HS Nr 38220000 **ADR** 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Antimony (Sb)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Barium (Ba)	: 100 mg/l
Beryllium (Be)	: 100 mg/l
Boron (B)	: 100 mg/l
Cadmium (Cd)	: 100 mg/l
Calcium (Ca)	: 100 mg/l
Chromium (Cr)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Magnesium (Mg)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Molybdenum (Mo)	: 100 mg/l
Nickel (Ni)	: 100 mg/l
Potassium (K)	: 100 mg/l
Selenium (Se)	: 100 mg/l
Silicon (Si)	: 100 mg/l
Silver (Ag)	: 100 mg/l
Strontium (Sr)	: 100 mg/l
Sodium (Na)	: 100 mg/l
Thallium (Tl)	: 100 mg/l
Titanium (Ti)	: 100 mg/l
Vanadium (V)	: 100 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13612.0100	100 ml	PE
CL01.13612.0500	500 ml	PE/H

Multi Element ICP QC Standard sol. (QCS-23) (23E) — CL01.13610

*ICP Quality Control Standard (QCS) Contains 23 elements in 2 to 5% HNO3 + traces HF (QCS-23)

Density 1.02 g/ml **UN** 3264
HS Nr 38220000 **ADR** 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Potassium (K)	: 1000 mg/l
Aluminium (Al)	: 100 mg/l
Antimony (Sb)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Barium (Ba)	: 100 mg/l
Beryllium (Be)	: 100 mg/l
Boron (B)	: 100 mg/l
Cadmium (Cd)	: 100 mg/l
Calcium (Ca)	: 100 mg/l
Chromium (Cr)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Magnesium (Mg)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Molybdenum (Mo)	: 100 mg/l
Nickel (Ni)	: 100 mg/l
Selenium (Se)	: 100 mg/l
Sodium (Na)	: 100 mg/l
Thallium (Tl)	: 100 mg/l
Vanadium (V)	: 100 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13610.0100	100 ml	PE
CL01.13610.0500	500 ml	PE/H

Multi Element ICP QC Standard sol. (QCS-01) (23E) — CL01.13601

*ICP-Quality Control Standard # 1 (QCS) Contains 23 elements in 5% HNO3 + traces HF (QCS-01)

Density 1.02 g/ml **UN** 3264
HS Nr 38220000 **ADR** 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Beryllium (Be)	: 100 mg/l
Cadmium (Cd)	: 100 mg/l
Calcium (Ca)	: 100 mg/l
Chromium (Cr)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Lithium (Li)	: 100 mg/l
Magnesium (Mg)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Molybdenum (Mo)	: 100 mg/l
Nickel (Ni)	: 100 mg/l
Phosphorus (P)	: 100 mg/l
Selenium (Se)	: 100 mg/l
Strontium (Sr)	: 100 mg/l
Thallium (Tl)	: 100 mg/l
Tin (Sn)	: 100 mg/l
Titanium (Ti)	: 100 mg/l
Vanadium (V)	: 100 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13601.0100	100 ml	PE
CL01.13601.0500	500 ml	PE/H

Quality Control Standards & Second Source Multi Element Standards

Multi Element ICP ASL QC Standard sol. (QCS-ASL-21) (21E)

NEW CL01.13609

*ICP Alternative Source Line Quality Control Standard (QCS) Contains 21 elements in 2 to 5% HNO3 + traces HF (QCS-ASL-21)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Beryllium (Be)	: 100 mg/l
Cadmium (Cd)	: 100 mg/l
Calcium (Ca)	: 100 mg/l
Chromium (Cr)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Lithium (Li)	: 100 ppm
Magnesium (Mg)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Molybdenum (Mo)	: 100 mg/l

Nickel (Ni)	: 100 mg/l
Selenium (Se)	: 100 mg/l
Strontium (Sr)	: 100 mg/l
Thallium (Tl)	: 100 mg/l
Titanium (Ti)	: 100 mg/l
Vanadium (V)	: 100 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13609.0100	100 ml	PE
CL01.13609.0500	500 ml	PE/H

Multi Element ICP QC Standard sol. (QCS-04) (19E)

NEW CL01.13604

*ICP Quality Control Multi-Elemental Standard I (QCS) Contains 19 elements in 5% HNO3 (QCS-04)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Barium (Ba)	: 5 mg/l
Beryllium (Be)	: 1 mg/l
Bismuth (Bi)	: 200 mg/l
Boron (B)	: 15 mg/l
Cadmium (Cd)	: 20 mg/l
Chromium (Cr)	: 25 mg/l
Cobalt (Co)	: 20 mg/l
Copper (Cu)	: 20 mg/l
Gallium (Ga)	: 150 mg/l
Indium (In)	: 200 mg/l
Iron (Fe)	: 15 mg/l
Lead (Pb)	: 200 mg/l

Manganese (Mn)	: 5 mg/l
Nickel (Ni)	: 50 mg/l
Silver (Ag)	: 50 mg/l
Strontium (Sr)	: 1 mg/l
Thallium (Tl)	: 400 mg/l
Zinc (Zn)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13604.0100	100 ml	PE
CL01.13604.0500	500 ml	PE/H

Multi Element ICP QC Standard sol. (QCS-19) (19E)

CL01.13608

*ICP Quality Control Standard (QCS) Contains 19 elements in 2 to 5% HNO3 + traces HF (QCS-19)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Beryllium (Be)	: 100 mg/l
Cadmium (Cd)	: 100 mg/l
Calcium (Ca)	: 100 mg/l
Chromium (Cr)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Magnesium (Mg)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Molybdenum (Mo)	: 100 mg/l

Nickel (Ni)	: 100 mg/l
Selenium (Se)	: 100 mg/l
Thallium (Tl)	: 100 mg/l
Titanium (Ti)	: 100 mg/l
Vanadium (V)	: 100 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13608.0100	100 ml	PE
CL01.13608.0500	500 ml	PE/H

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Quality Control Standards & Second Source Multi Element Standards

Multi Element ICP QC Standard sol. (QCS-03) (15E) — CL01.13603

*ICP Quality Control Standard (QCS) Contains 15 elements in 5% HNO3 (QCS-03)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Barium (Ba)	: 100 mg/l
Cadmium (Cd)	: 100 mg/l
Calcium (Ca)	: 100 mg/l
Chromium (Cr)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Magnesium (Mg)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Nickel (Ni)	: 100 mg/l
Sodium (Na)	: 100 mg/l
Titanium (Ti)	: 100 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13603.0100	100 ml	PE
CL01.13603.0500	500 ml	PE/H

Multi Element ICP QC Standard sol. (QCS-02) (7E) — CL01.13602

*ICP-Quality Control Standard # 2 (QCS) Contains 7 elements in 5% HNO3 + traces HF (QCS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Barium (Ba)	: 100 mg/l
Boron (B)	: 100 mg/l
Potassium (K)	: 1000 mg/l
Silicon (Si)	: 500 mg/l
Silver (Ag)	: 50 mg/l
Sodium (Na)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13602.0100	100 ml	PE
CL01.13602.0500	500 ml	PE/H

Multi Element ICP ASL QC Standard sol. (QCS-ASL-7) (7E) — CL01.13607

*ICP Alternative Source Line Quality Control Standard (QCS) Contains 7 elements in 2 to 5% HNO3 + traces HF (QCS-ASL-7)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Barium (Ba)	: 100mg/l
Boron (B)	: 100 mg/l
Potassium (K)	: 1000 mg/l
Silicon (Si)	: 50 mg/l
Silver (Ag)	: 100 mg/l
Sodium (Na)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13607.0100	100 ml	PE
CL01.13607.0500	500 ml	PE/H

Multi Element ICP QC Standard sol. (QCS-06) (4E) — CL01.13606

ICP Quality Control Multi-Elemental Standard III (QCS) Contains 4 elements in 2% HNO3 (QCS-06)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Barium (Ba)	: 1000 mg/l
Calcium (Ca)	: 1000 mg/l
Magnesium (Mg)	: 1000 mg/l
Strontium (Sr)	: 1000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13606.0100	100 ml	PE
CL01.13606.0500	500 ml	PE/H

Quality Control Standards & Second Source Multi Element Standards

Multi Element ICP QC Standard sol. (QCS-05) (3E) — CL01.13605

*ICP Quality Control Multi-Elemental Standard II (QCS) Contains 3 elements in 2% HNO3 (QCS-05)

Density 1.02 g/ml
HS Nr 38220000

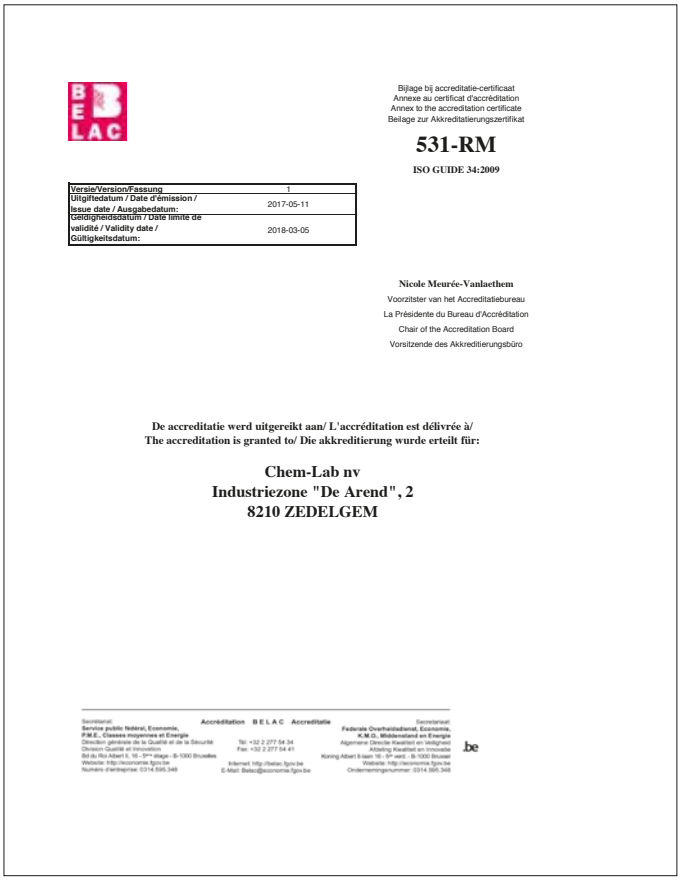
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Lithium (Li)	: 250 mg/l
Potassium (K)	: 10000 mg/l
Sodium (Na)	: 1000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13605.0100	100 ml	PE
CL01.13605.0500	500 ml	PE/H



Bijlage bij accreditatie-certificaat
Annexe au certificat d'accréditation
Annex to the accreditation certificate
Beilage zur Akkreditatierungszertifikat

531-RM

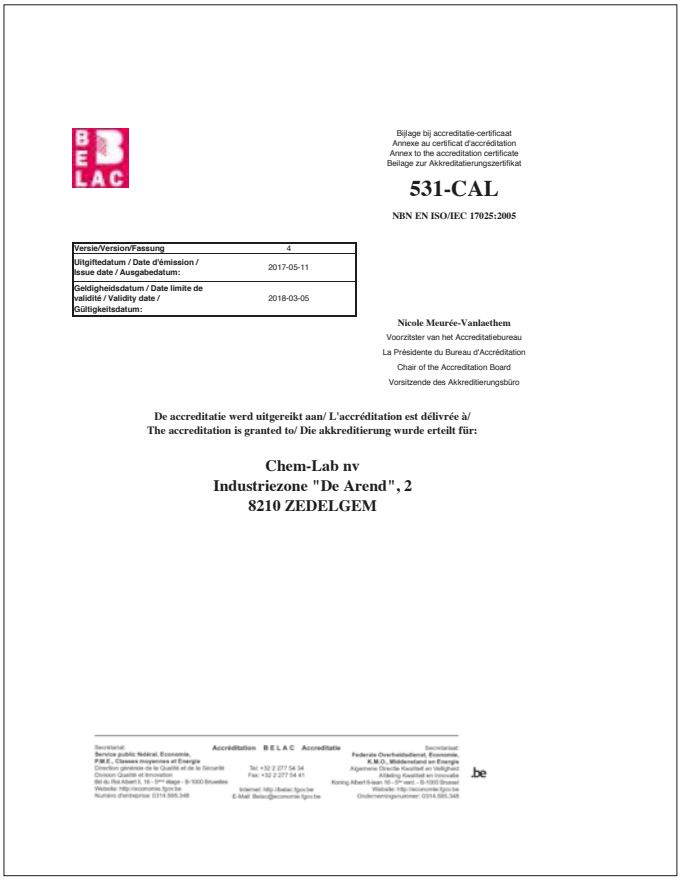
ISO GUIDE 34:2009

Versie/Version/Fassung	1
Uitgiftedatum / Date d'émission / Issue date / Ausgabedatum:	2017-05-11
Geldigheidsdatum / Date limite de validité / Validity date / Gültigkeitsdatum:	2018-03-05

Nicole Meurée-Vanlaethem
Voorzitster van het Accreditatiebureau
La Présidente du Bureau d'Accréditation
Chair of the Accreditation Board
Vorsitzende des Akkreditierungsbüro

De accreditatie werd uitgereikt aan/ L'accréditation est délivrée à/ The accreditation is granted to/ Die akkreditierung wurde erteilt für:

Chem-Lab nv
Industriezone "De Arend", 2
8210 ZEDELGEM



Bijlage bij accreditatie-certificaat
Annexe au certificat d'accréditation
Annex to the accreditation certificate
Beilage zur Akkreditatierungszertifikat

531-CAL

NBN EN ISO/IEC 17025:2005

Versie/Version/Fassung	4
Uitgiftedatum / Date d'émission / Issue date / Ausgabedatum:	2017-05-11
Geldigheidsdatum / Date limite de validité / Validity date / Gültigkeitsdatum:	2018-03-05

Nicole Meurée-Vanlaethem
Voorzitster van het Accreditatiebureau
La Présidente du Bureau d'Accréditation
Chair of the Accreditation Board
Vorsitzende des Akkreditierungsbüro

De accreditatie werd uitgereikt aan/ L'accréditation est délivrée à/ The accreditation is granted to/ Die akkreditierung wurde erteilt für:

Chem-Lab nv
Industriezone "De Arend", 2
8210 ZEDELGEM

A Certificate of Analysis is provided with each ICP standard stating:

- Actual certified concentration of the final solution
- Traceability to NIST
- Expiration date
- Trace impurities detected

Instrument Check Multi Element Standards

Multi Element ICP SQS Standard sol. (SQS-02) (34E) — CL01.13632

*ICP Instrument Screening Solution II (SQS) — Contains 34 elements in 2 to 5% HNO3 + traces HCl & HF (SQS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Gold (Au)	: 10 mg/l
Boron (B)	: 10 mg/l
Beryllium (Be)	: 10 mg/l
Cobalt (Co)	: 10 mg/l
Chromium (Cr)	: 10 mg/l
Caesium (Cs)	: 10 mg/l
Copper (Cu)	: 10 mg/l
Iron (Fe)	: 10 mg/l
Germanium (Ge)	: 10 mg/l
Hafnium (Hf)	: 10 mg/l
Iridium (Ir)	: 10 mg/l
Potassium (K)	: 10 mg/l
Lithium (Li)	: 10 mg/l
Manganese (Mn)	: 10 mg/l
Molybdenum (Mo)	: 10 mg/l
Niobium (Nb)	: 10 mg/l
Nickel (Ni)	: 10 mg/l
Palladium (Pd)	: 10 mg/l
Platinum (Pt)	: 10 mg/l
Rubidium (Rb)	: 10 mg/l
Rhenium (Re)	: 10 mg/l
Rhodium (Rh)	: 10 mg/l

Ruthenium (Ru)	: 10 mg/l
Sulfur (S)	: 10 mg/l
Antimony (Sb)	: 10 mg/l
Silicon (Si)	: 10 mg/l
Tin (Sn)	: 10 mg/l
Tantalum (Ta)	: 10 mg/l
Tellurium (Te)	: 10 mg/l
Titanium (Ti)	: 10 mg/l
Vanadium (V)	: 10 mg/l
Tungsten (W)	: 10 mg/l
Zinc (Zn)	: 10 mg/l
Zirconium (Zr)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13632.0100	100 ml	PE
CL01.13632.0500	500 ml	PE/H

Multi Element ICP SQS Standard sol. (SQS-01) (33E) — CL01.13631

*ICP Instrument Screening Solution I (SQS) — Contains 33 elements in 2 to 5% HNO3 + traces HF (SQS-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 10 mg/l
Arsenic (As)	: 10 mg/l
Barium (Ba)	: 10 mg/l
Bismuth (Bi)	: 10 mg/l
Calcium (Ca)	: 10 mg/l
Cadmium (Cd)	: 10 mg/l
Cerium (Ce)	: 10 mg/l
Dysprosium (Dy)	: 10 mg/l
Erbium (Er)	: 10 mg/l
Europium (Eu)	: 10 mg/l
Gallium (Ga)	: 10 mg/l
Gadolinium (Gd)	: 10 mg/l
Holmium (Ho)	: 10 mg/l
Indium (In)	: 10 mg/l
Lanthanum (La)	: 10 mg/l
Lutetium (Lu)	: 10 mg/l
Magnesium (Mg)	: 10 mg/l
Sodium (Na)	: 10 mg/l
Neodymium (Nd)	: 10 mg/l
Phosphorus (P)	: 10 mg/l
Lead (Pb)	: 10 mg/l

Praseodymium (Pr)	: 10 mg/l
Scandium (Sc)	: 10 mg/l
Selenium (Se)	: 10 mg/l
Samarium (Sm)	: 10 mg/l
Strontium (Sr)	: 10 mg/l
Terbium (Tb)	: 10 mg/l
Thorium (Th)	: 10 mg/l
Thallium (Tl)	: 10 mg/l
Thulium (Tm)	: 10 mg/l
Uranium (U)	: 10 mg/l
Yttrium (Y)	: 10 mg/l
Ytterbium (Yb)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13631.0100	100 ml	PE
CL01.13631.0500	500 ml	PE/H

Instrument Check Multi Element Standards

Multi Element ICP SQS Standard sol. (SQS-03) (2E) — CL01.13633

*ICP Instrument Screening Solution III (SQS) Contains 2 elements in 2 to 5% HNO3 (SQS-03)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Mercury (Hg)	: 10 mg/l
Silver (Ag)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13633.0100	100 ml	PE
CL01.13633.0500	500 ml	PE/H

Certificate of Analysis
IONEX Reference Standard

Art. Nr. : CL01.13609 *Lot Nr. :* 25.7403105

Multi Element ICP ASL QC Standard sol. (QCS-ASL-21) (21E)
Contains 21 elements in 2 to 5% HNO3 + traces HF (QCS-ASL-21)

Certification and Traceability: This standard solution was prepared to the certified concentrations shown below by method BM001 using certified single element solutions that are directly traceable to SI via the NIST SRMs listed on the second page. These certified values are valid for a temperature of 20°C and traceable to the International System of Units (SI). Secondary verification of the certified concentrations was performed by IC or ICP-OES.

Uncertainty: The maximum reported relative expanded uncertainty for each component is ± 1% and is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with GUM and EA-4/02.

Certified values:

Sb: 100 mg/l
As: 100 mg/l
Be: 100 mg/l
Cd: 100 mg/l
Ca: 100 mg/l
Cr: 100 mg/l
Co: 100 mg/l
Cu: 100 mg/l
Fe: 100 mg/l
Pb: 100 mg/l
Li: 100 pmm
Mg: 100 mg/l
Mn: 100 mg/l
Mo: 100 mg/l
Ni: 100 mg/l
Se: 100 mg/l
Sr: 100 mg/l
Tl: 100 mg/l
Ti: 100 mg/l
V: 100 mg/l
Zn: 100 mg/l

Quality Managment System:
Our Ionex(R) Reference Standards have been prepared and certified under our ISO9001 Quality System in accordance to the principle of the following guides:

Guide to the Expression of Uncertainty in Measurment	GUM: 1995
Reference Materials - Contents of certificates and labels	ISO Guide 31: 2000
General requirements for the competence of calibration laboratories	ISO / IEC 17025: 2005

Chemist: Luis Bianchi

Date of release: 31 May 2017
Expires: May-2020

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Industriezone "De Arend" 2 B-8210 ZEDELGEM - BELGIUM
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Chem-Lab multi-element standards are compared against the following NIST SRMs

Element	Aq. SRM	Oil SRM
Ag	3151	1077a
Al	3101a	1075a
As	3103a	3103a
Au	3121	-
B	3107	3107
Ba	3104a	1051b
Be	3105a	3105a
Bi	3106	3106
Br-	3184	-
Ca	3109a	3109
Cd	3108	1053a
Ce	3110	-
Cl-	919b	-
Co	3113	3113
Cr	3112a	1078b
Cs	3111a	-
Cu	3114	1080a
Dy	3115a	-
Er	3116a	-
Eu	3117a	-
F-	3183	-
Fe	3126a	1079b
Ga	3119a	-
Gd	3118a	-
Ge	3120a	-
Hf	3122	-
Hg	3133	3133
Ho	3123a	-
In	3124a	-
K	3141a	3141a
La	3127a	3127a
Li	3129a	1060a
Lu	3130a	-
Mg	3131a	3131a
Mn	3132	3132
Mo	3134	3134
Na	3152a	1069b

Element	Aq. SRM	Oil SRM
Nb	3137	-
Nd	3135a	-
Ni	3136	1065b
NO3-	3185	-
NO2-	136e	-
P	3139a	1071b
Pb	3128	1059c
Pd	3138	-
PO4-3	3186	-
Pr	3142a	-
Pt	3140	-
Rb	3145a	-
Re	3143	-
Rh	3144	-
S	3154	3154
Sb	3102a	3102a
Sc	3148a	3148a
Se	3149	3149
Si	3150	1066a
Sm	3147a	-
Sn	3161a	1057b
SO4-2	3181	-
Sr	3153a	1070a
Ta	3155	-
Tb	3157a	-
Te	3156	-
Th	3159	-
Ti	3162a	3162a
Tl	3158	3158
Tm	3160a	-
U	3164	-
V	3165	1052b
W	3163	-
Y	3167a	3167a
Tb	3166a	-
Zn	3168a	1073b
Zr	3169	3169

D.:1.02 g/ml

Sb: 100 mg/l
As: 100 mg/l
Be: 100 mg/l
Cd: 100 mg/l
Ca: 100 mg/l
Cr: 100 mg/l
Co: 100 mg/l
Cu: 100 mg/l
Fe: 100 mg/l
Pb: 100 mg/l
Li: 100 pmm
Mg: 100 mg/l
Mn: 100 mg/l
Mo: 100 mg/l
Ni: 100 mg/l
Se: 100 mg/l
Sr: 100 mg/l
Tl: 100 mg/l
Ti: 100 mg/l
V: 100 mg/l
Zn: 100 mg/l

For measured values see certificate

UN 3264

PE/H 500

CL01.13609.0500
500 ml
Batch Nr.: 25.7403105
Exp. Date: 05-2020
Storage: RT

Multi Element ICP ASL QC Standard sol. (QCS-ASL-21) (21E)
Multi Element ICP ASL QC Standaard opl. (21E)
Multi Elément ICP ASL QC Standard sol. (21E)
Mehr Element ICP ASL QC Standard Lös. (21E)
Contains 21 elements in 2 to 5% HNO3 + traces HF (QCS-ASL-21)
*ICP Alternative Source Line Quality Control Standard (QCS)

Chem-Lab NV
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www.chem-lab.be

Warning.: Causes skin irritation. Wear protective gloves, protective clothing, eye protection, face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Waarschuwing.: Veroorzaakt huidirritatie. Beschermende handschoenen, beschermende kleding, oogbescherming, gelaatsbescherming dragen. BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.
Avertissement.: Provoque une irritation cutanée. Porter des gants de protection, des vêtements de protection, un équipement de protection des yeux, du visage. EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.
Achtung.: Verursacht Hautreizungen. Schutzhandschuhe, Schutzkleidung, Augenschutz, Gesichtsschutz tragen. BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.
Alerta.: Provoca irritación cutánea. Llevar guantes, prendas, gafas, máscara de protección. EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.
Avvertimento.: Provoca irritazione cutanea. Indossare guanti, indumenti protettivi, Proteggere gli occhi, il viso. IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare.

EPA Method 200.7 Version 3.3 & Earlier
Metals and Trace Elements in Water and Wastes by ICP - AA Multi Element Standards

Multi Element ICP LPCS Standard sol. LPCS-01 (29E)

CL01.13771

*ICP-EPA Methods (Method 200.7 Version 3.3 & earlier) - Laboratory Performance Check Standard (LPCS) (LPCS-01)

Contains 29 elements in 5% HNO3

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Aluminium (Al)	: 20 mg/l
Antimony (Sb)	: 20 mg/l
Arsenic (As)	: 20 mg/l
Barium (Ba)	: 20 mg/l
Beryllium (Be)	: 20 mg/l
Boron (B)	: 20 mg/l
Cadmium (Cd)	: 20 mg/l
Calcium (Ca)	: 20 mg/l
Chromium (Cr)	: 20 mg/l
Cobalt (Co)	: 20 mg/l
Copper (Cu)	: 20 mg/l
Iron (Fe)	: 20 mg/l
Lead (Pb)	: 20 mg/l
Lithium (Li)	: 20 mg/l
Magnesium (Mg)	: 20 mg/l
Manganese (Mn)	: 20 mg/l
Molybdenum (Mo)	: 20 mg/l
Nickel (Ni)	: 20 mg/l
Phosphorus (P)	: 20 mg/l
Potassium (K)	: 20 mg/l
Selenium (Se)	: 20 mg/l
Silicon (Si)	: 20 mg/l
Silver (Ag)	: 5 mg/l
Sodium (Na)	: 20 mg/l
Strontium (Sr)	: 20 mg/l
Thallium (Tl)	: 20 mg/l
Tin (Sn)	: 20 mg/l
Vanadium (V)	: 20 mg/l
Zinc (Zn)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13771.0100	100 ml	PE
CL01.13771.0500	500 ml	PE/H

Multi Element ICP LFSS Standard sol. LFSS-01 (25E)

CL01.13772

*ICP-EPA Methods (Method 200.7 Version 3.3 & earlier) - Laboratory Fortifying Stock Solution (LFSS) (LFSS-01)

Contains 25 elements in 5% HNO3 + traces HF

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Aluminium (Al)	: 25 mg/l
Antimony (Sb)	: 25 mg/l
Arsenic (As)	: 25 mg/l
Barium (Ba)	: 25 mg/l
Beryllium (Be)	: 25 mg/l
Boron (B)	: 25 mg/l
Cadmium (Cd)	: 10 mg/l
Chromium (Cr)	: 25 mg/l
Cobalt (Co)	: 10 mg/l
Copper (Cu)	: 25 mg/l
Iron (Fe)	: 25 mg/l
Lead (Pb)	: 25 mg/l
Lithium (Li)	: 25 mg/l
Manganese (Mn)	: 25 mg/l
Molybdenum (Mo)	: 10 mg/l
Nickel (Ni)	: 25 mg/l
Phosphorus (P)	: 50 mg/l
Selenium (Se)	: 25 mg/l
Silicon (Si)	: 25 mg/l
Silver (Ag)	: 2.5 mg/l
Strontium (Sr)	: 25 mg/l
Thallium (Tl)	: 25 mg/l
Tin (Sn)	: 10 mg/l
Vanadium (V)	: 10 mg/l
Zinc (Zn)	: 25 mg/l

Art. Nr.	Pack	Pack Type
CL01.13772.0100	100 ml	PE
CL01.13772.0500	500 ml	PE/H

Multi Element ICP SP Standard sol. SP-03 (12E)

CL01.13743

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard # 3

Contains 12 elements in 5% HNO3 (M-200.7-SP-03)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Aluminium (Al)	: 2000 mg/l
Barium (Ba)	: 2000 mg/l
Beryllium (Be)	: 50 mg/l
Chromium (Cr)	: 200 mg/l
Cobalt (Co)	: 500 mg/l
Copper (Cu)	: 250 mg/l
Iron (Fe)	: 1000 mg/l
Manganese (Mn)	: 500 mg/l
Nickel (Ni)	: 500 mg/l
Silver (Ag)	: 50 mg/l
Vanadium (V)	: 500 mg/l
Zinc (Zn)	: 500 mg/l
± 0.3%	

Art. Nr.	Pack	Pack Type
CL01.13743.0100	100 ml	PE
CL01.13743.0500	500 ml	PE/H

EPA Method 200.7 Version 3.3 & Earlier
Metals and Trace Elements in Water and Wastes by ICP - AA Multi Element Standards

Multi Element ICP CAL Standard sol. MCS-01 (6E) — CL01.13731

*ICP-EPA Methods (Methods 6010A - 6010B - 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 1 — Contains 6 elements in 2% HNO3 (MCS-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Beryllium (Be)	: 50 mg/l
Cadmium (Cd)	: 150 mg/l
Lead (Pb)	: 500 mg/l
Manganese (Mn)	: 100 mg/l
Selenium (Se)	: 200 mg/l
Zinc (Zn)	: 150 mg/l

Art. Nr.	Pack	Pack Type
CL01.13731.0100	100 ml	PE
CL01.13731.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-04 (6E) — CL01.13734

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 4 — Contains 6 elements in 2% HNO3 (MCS-04)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 200 mg/l
Calcium (Ca)	: 1000 mg/l
Chromium (Cr)	: 20 mg/l
Nickel (Ni)	: 20 mg/l
Potassium (K)	: 400 mg/l
Sodium (Na)	: 200 mg/l
± 0.3%	

Art. Nr.	Pack	Pack Type
CL01.13734.0100	100 ml	PE
CL01.13734.0500	500 ml	PE/H

Multi Element ICP SP Standard sol. SP-05 (5E) — CL01.13745

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard # 5 — Contains 5 elements in 5% HNO3 (M-200.7-SP-05)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 2000 mg/l
Cadmium (Cd)	: 50 mg/l
Lead (Pb)	: 500 mg/l
Selenium (Se)	: 2000 mg/l
Thallium (Tl)	: 2000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13745.0100	100 ml	PE
CL01.13745.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-02 (5E) — CL01.13732

*ICP-EPA Methods (Methods 6010A - 6010B - 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 2 — Contains 5 elements in 2% HNO3 (MCS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Barium (Ba)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 10000 mg/l
Vanadium (V)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13732.0100	100 ml	PE
CL01.13732.0500	500 ml	PE/H

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EPA Method 200.7 Version 3.3 & Earlier
Metals and Trace Elements in Water and Wastes by ICP - AA Multi Element Standards

Multi Element ICP CAL Standard sol. MCS-05 (5E) — CL01.13735

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 5 — Contains 5 elements in 2% HNO3 (MCS-05)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 200 mg/l
Boron (B)	: 100 mg/l
Magnesium (Mg)	: 1000 mg/l
Silver (Ag)	: 50 mg/l
Thallium (Tl)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13735.0100	100 ml	PE
CL01.13735.0500	500 ml	PE/H

Multi Element ICP SP Standard sol. SP-05R (5E) — CL01.13754

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard for Drinking Water # 5R — Contains 5 elements in 5% HNO3 (M-200.7-SP-05R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 200 mg/l
Cadmium (Cd)	: 100 mg/l
Lead (Pb)	: 200 mg/l
Selenium (Se)	: 400 mg/l
Thallium (Tl)	: 400 mg/l
± 0.3%	

Art. Nr.	Pack	Pack Type
CL01.13754.0100	100 ml	PE
CL01.13754.0500	500 ml	PE/H

Multi Element ICP SIC Standard sol. SICS-02 (5E) — CL01.13762

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Interference Check Standard # 2 — Contains 5 elements in 2% HNO3 (SICS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Chromium (Cr)	: 20 mg/l
Cobalt (Co)	: 10 mg/l
Copper (Cu)	: 40 mg/l
Manganese (Mn)	: 20 mg/l
Vanadium (V)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13762.0100	100 ml	PE
CL01.13762.0500	500 ml	PE/H

Multi Element ICP PLASOL Standard sol. M-200.7-PLASOL-1 (4E) — CL01.13723

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Plasma Solution (PLASOL) - Determining optimum viewing height of the plasma analytical zone. Contains 4 elements in 5% HNO3 (PLASOL-1)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 10 mg/l
Lead (Pb)	: 10 mg/l
Selenium (Se)	: 10 mg/l
Thallium (Tl)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13723.0100	100 ml	PE
CL01.13723.0500	500 ml	PE/H

EPA Method 200.7 Version 3.3 & Earlier
Metals and Trace Elements in Water and Wastes by ICP - AA Multi Element Standards

Multi Element ICP SP Standard sol. SP-02 (4E) — CL01.13742

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard # 2 — Contains 4 elements in 2% HNO3 (M-200.7-SP-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 1000 mg/l
Magnesium (Mg)	: 2000 mg/l
Potassium (K)	: 10000 mg/l
Sodium (Na)	: 3000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13742.0100	100 ml	PE
CL01.13742.0500	500 ml	PE/H

Multi Element ICP SP Standard sol. SP-01R (4E) — CL01.13751

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard for Drinking Water # 1R — Contains 4 elements in H2O + traces HF (M-200.7-SP-01R)

Density 1.02 g/ml
HS Nr 38220000

Boron (B)	: 400 mg/l
Molybdenum (Mo)	: 200 mg/l
Silicon (Si)	: 2000 mg/l
Phosphorus (P)	: 400 mg/l

Art. Nr.	Pack	Pack Type
CL01.13751.0100	100 ml	PE
CL01.13751.0500	500 ml	PE/H

Multi Element ICP SP Standard sol. SP-02R (4E) — CL01.13752

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard for Drinking Water # 2R — Contains 4 elements in 2% HNO3 (M-200.7-SP-02R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 10000 mg/l
Magnesium (Mg)	: 10000 mg/l
Potassium (K)	: 10000 mg/l
Sodium (Na)	: 10000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13752.0100	100 ml	PE
CL01.13752.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-03 (3E) — CL01.13733

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 3 — Contains 3 elements in 2% HNO3 + traces HF (MCS-03)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 500 mg/l
Molybdenum (Mo)	: 100 mg/l
Silicon (Si)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13733.0100	100 ml	PE
CL01.13733.0500	500 ml	PE/H

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EPA Method 200.7 Version 3.3 & Earlier
Metals and Trace Elements in Water and Wastes by ICP - AA Multi Element Standards

Multi Element ICP SIC Standard sol. SICS-03 (3E) — CL01.13763

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Interference Check Standard # 3 Contains 3 elements in 2% HNO3 (SICS-03)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Aluminium (Al)	: 30 mg/l
Iron (Fe)	: 150 mg/l
Nickel (Ni)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13763.0100	100 ml	PE
CL01.13763.0500	500 ml	PE/H

Multi Element ICP SP Standard sol. SP-01 (3E) — CL01.13741

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard # 1 Contains 3 elements in 2% HNO3 + traces HF (M-200.7-SP-01)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Boron (B)	: 500 mg/l
Molybdenum (Mo)	: 500 mg/l
Silicon (Si)	: 2000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13741.0100	100 ml	PE
CL01.13741.0500	500 ml	PE/H

Multi Element ICP TUNSOL Standard sol. M-200.7-TUNSOL-1 (2E) — CL01.13724

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Tuning Solution (TUNSOL) - Adjusting the aerosol argon gas flow prior to calibration and analysis. Contains 2 elements in 5% HNO3 (TUNSOL-1)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Copper (Cu)	: 10 mg/l
Lead (Pb)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13724.0100	100 ml	PE
CL01.13724.0500	500 ml	PE/H

Mono Element ICP SP Standard sol. TCLP-02 (1E) — CL01.13773

*ICP-EPA Methods (Methods 6010B - 200.7 Version 3.3 and earlier) - Spiking & Mercury Standard - TCLP Standaard 2 HNO3 (TCLP-02) Contains 1 elements in 5%

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Mercury (Hg)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13773.0100	100 ml	PE
CL01.13773.0500	500 ml	PE/H

EPA Method 200.7 Version 3.3 & Earlier
Metals and Trace Elements in Water and Wastes by ICP - AA Multi Element Standards

Mono Element ICP SP Standard sol. SP-04 (1E) — CL01.13744

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard # 4 — Contains 1 elements in 2% HNO3 (M-200.7-SP-04)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Antimony (Sb)	: 500 mg/l

Art. Nr.	Pack	Pack Type
CL01.13744.0100	100 ml	PE
CL01.13744.0500	500 ml	PE/H

Mono Element ICP SP Standard sol. SP-04R (1E) — CL01.13753

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Spiking Standard for Drinking Water # 4R — Contains 1 elements in 2% HNO3 (M-200.7-SP-04)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Antimony (Sb)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13753.0100	100 ml	PE
CL01.13753.0500	500 ml	PE/H

Mono Element ICP SIC Standard sol. SICS-01 (1E) — CL01.13761

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Interference Check Standard # 1 — Contains 1 elements in 2% HNO3 + traces HF (SICS-01)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Molybdenum (Mo)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13761.0100	100 ml	PE
CL01.13761.0500	500 ml	PE/H

Mono Element ICP SP Standard sol. TCLP-02-10X (1E) — CL01.13746

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Mercury Standard — Contains 1 elements in 5% HNO3 (TCLP-02-10X)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Mercury (Hg)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13746.0100	100 ml	PE
CL01.13746.0500	500 ml	PE/H

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EPA Method 200.7 Version 4.4
Metals and Trace Elements in Water and Wastes by ICP-AA Multi Element Standards

Multi Element ICP LFSS Standard sol. M-200.7-LFSS-01 (26E)

CL01.13711

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Instrument Fortifying (Spiking) Standard # 1 HF (M-200.7-LFSS-01)

Contains 26 elements in 5% HNO3 + traces

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 20 mg/l
Arsenic (As)	: 20 mg/l
Barium (Ba)	: 20 mg/l
Beryllium (Be)	: 20 mg/l
Boron (B)	: 20 mg/l
Cadmium (Cd)	: 20 mg/l
Calcium (Ca)	: 20 mg/l
Cerium (Ce)	: 20 mg/l
Chromium (Cr)	: 20 mg/l
Cobalt (Co)	: 20 mg/l
Copper (Cu)	: 20 mg/l
Iron (Fe)	: 20 mg/l
Lead (Pb)	: 20 mg/l
Lithium (Li)	: 20 mg/l
Magnesium (Mg)	: 20 mg/l
Manganese (Mn)	: 20 mg/l
Nickel (Ni)	: 20 mg/l

Phosphorus (P)	: 20 mg/l
Potassium (K)	: 500 mg/l
Selenium (Se)	: 20 mg/l
Silver (Ag)	: 7.5 mg/l
Sodium (Na)	: 20 mg/l
Strontium (Sr)	: 20 mg/l
Thallium (Tl)	: 20 mg/l
Vanadium (V)	: 20 mg/l
Zinc (Zn)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13711.0100	100 ml	PE
CL01.13711.0500	500 ml	PE/H

Multi Element ICP IPC Standard sol. M-200.7-IPC-01 (26E)

CL01.13721

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Instrument Performance Check (IPC) 01)

Contains 26 elements in 5% HNO3 (M-200.7-IPC-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 20 mg/l
Arsenic (As)	: 20 mg/l
Barium (Ba)	: 20 mg/l
Beryllium (Be)	: 20 mg/l
Boron (B)	: 20 mg/l
Cadmium (Cd)	: 20 mg/l
Calcium (Ca)	: 20 mg/l
Cerium (Ce)	: 20 mg/l
Chromium (Cr)	: 20 mg/l
Cobalt (Co)	: 20 mg/l
Copper (Cu)	: 20 mg/l
Iron (Fe)	: 20 mg/l
Lead (Pb)	: 20 mg/l
Lithium (Li)	: 20 mg/l
Magnesium (Mg)	: 20 mg/l
Manganese (Mn)	: 20 mg/l
Nickel (Ni)	: 20 mg/l

Phosphorus (P)	: 100 mg/l
Potassium (K)	: 100 mg/l
Selenium (Se)	: 20 mg/l
Silver (Ag)	: 2.5 mg/l
Sodium (Na)	: 20 mg/l
Strontium (Sr)	: 20 mg/l
Thallium (Tl)	: 20 mg/l
Vanadium (V)	: 20 mg/l
Zinc (Zn)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13721.0100	100 ml	PE
CL01.13721.0500	500 ml	PE/H

EPA Method 200.7 Version 4.4
Metals and Trace Elements in Water and Wastes by ICP-AA Multi Element Standards

Multi Element ICP LFSS Standard sol. M-200.7-LFSS-01S (24E) — CL01.13713

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Instrument Fortifying (Spiking) Standard for Solids # 1 + traces HF (M-200.7-LFSS-01S)

Contains 24 elements in 5% HNO3

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 20 mg/l
Barium (Ba)	: 20 mg/l
Beryllium (Be)	: 20 mg/l
Boron (B)	: 20 mg/l
Cadmium (Cd)	: 20 mg/l
Calcium (Ca)	: 20 mg/l
Cerium (Ce)	: 20 mg/l
Chromium (Cr)	: 20 mg/l
Cobalt (Co)	: 20 mg/l
Copper (Cu)	: 20 mg/l
Iron (Fe)	: 20 mg/l
Lead (Pb)	: 20 mg/l
Lithium (Li)	: 20 mg/l
Manganese (Mn)	: 20 mg/l
Nickel (Ni)	: 20 mg/l
Phosphorus (P)	: 20 mg/l
Potassium (K)	: 500 mg/l
Selenium (Se)	: 20 mg/l
Silver (Ag)	: 7.5 mg/l
Sodium (Na)	: 20 mg/l
Strontium (Sr)	: 20 mg/l
Thallium (Tl)	: 20 mg/l
Vanadium (V)	: 20 mg/l
Zinc (Zn)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13713.0100	100 ml	PE
CL01.13713.0500	500 ml	PE/H

Multi Element ICP LFSS Standard sol. M-200.7-LFSS-01W (22E) — CL01.13712

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Instrument Fortifying (Spiking) Standard for Water # 1 + traces HF (M-200.7-LFSS-01W)

Contains 22 elements in 5% HNO3

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 20 mg/l
Arsenic (As)	: 20 mg/l
Barium (Ba)	: 20 mg/l
Beryllium (Be)	: 20 mg/l
Boron (B)	: 20 mg/l
Cadmium (Cd)	: 20 mg/l
Cerium (Ce)	: 20 mg/l
Chromium (Cr)	: 20 mg/l
Cobalt (Co)	: 20 mg/l
Copper (Cu)	: 20 mg/l
Iron (Fe)	: 20 mg/l
Lead (Pb)	: 20 mg/l
Lithium (Li)	: 20 mg/l
Manganese (Mn)	: 20 mg/l
Nickel (Ni)	: 20 mg/l
Phosphorus (P)	: 20 mg/l
Potassium (K)	: 500 mg/l
Selenium (Se)	: 20 mg/l
Silver (Ag)	: 7.5 mg/l
Thallium (Tl)	: 20 mg/l
Vanadium (V)	: 20 mg/l
Zinc (Zn)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13712.0100	100 ml	PE
CL01.13712.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. M-200.7-01 (10E) — CL01.13701

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Mixed Calibration Standard 1

Contains 10 elements in 5% HNO3 (M-200.7-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 50 mg/l
Arsenic (As)	: 100 mg/l
Barium (Ba)	: 10 mg/l
Boron (B)	: 20 mg/l
Cadmium (Cd)	: 20 mg/l
Calcium (Ca)	: 100 mg/l
Copper (Cu)	: 20 mg/l
Manganese (Mn)	: 20 mg/l
Selenium (Se)	: 50 mg/l
Silver (Ag)	: 5 mg/l

Art. Nr.	Pack	Pack Type
CL01.13701.0100	100 ml	PE
CL01.13701.0500	500 ml	PE/H

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EPA Method 200.7 Version 4.4
Metals and Trace Elements in Water and Wastes by ICP-AA Multi Element Standards

Multi Element ICP CAL Standard sol. M-200.7-05 (6E) — CL01.13705

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Mixed Calibration Standard 5

Contains 6 elements in 5% HNO3 (M-200.7-05)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Beryllium (Be)	: 10 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Magnesium (Mg)	: 100 mg/l
Nickel (Ni)	: 20 mg/l
Thallium (Tl)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13705.0100	100 ml	PE
CL01.13705.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. M-200.7-02R (6E) — CL01.13702

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Mixed Calibration Standard 2

Contains 6 elements in 5% HNO3 (M-200.7-02R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Lithium (Li)	: 50 mg/l
Molybdenum (Mo)	: 100 mg/l
Potassium (K)	: 200 mg/l
Sodium (Na)	: 100 mg/l
Strontium (Sr)	: 10 mg/l
Titanium (Ti)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13702.0100	100 ml	PE
CL01.13702.0500	500 ml	PE/H

Multi Element ICP LFSS Standard sol. M-200.7-LFSS-02 (5E) — CL01.13714

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Instrument Fortifying (Spiking) Standard # 2 (M-200.7-LFSS-02)

Contains 5 elements in 5% HNO3 + traces HF

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 20 mg/l
Molybdenum (Mo)	: 20 mg/l
Silicon (Si)	: 20 mg/l
Tin (Sn)	: 20 mg/l
Titanium (Ti)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13714.0100	100 ml	PE
CL01.13714.0500	500 ml	PE/H

Multi Element ICP IPC Standard sol. M-200.7-IPC-02 (5E) — CL01.13722

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Instrument Performance Check (IPC) (M-200.7-IPC-02)

Contains 5 elements in 5% HNO3 + traces HF (M-

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 20 mg/l
Molybdenum (Mo)	: 20 mg/l
Silicon (Si)	: 100 mg/l
Tin (Sn)	: 20 mg/l
Titanium (Ti)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13722.0100	100 ml	PE
CL01.13722.0500	500 ml	PE/H

EPA Method 200.7 Version 4.4
Metals and Trace Elements in Water and Wastes by ICP-AA Multi Element Standards

Multi Element ICP CAL Standard sol. M-200.7-04 (5E) — CL01.13704

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Mixed Calibration Standard 4 — Contains 5 elements in 5% HNO3 (M-200.7-04)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Chromium (Cr)	: 50 mg/l
Silicon (Si)	: 100 mg/l
Tin (Sn)	: 40 mg/l
Zinc (Zn)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13704.0100	100 ml	PE
CL01.13704.0500	500 ml	PE/H

Multi Element ICP PLASOL Standard sol. M-200.7-PLASOL-1 (4E) — CL01.13723

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Plasma Solution (PLASOL) - Determining optimum viewing height of the plasma analytical zone. Contains 4 elements in 5% HNO3 (PLASOL-1)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 10 mg/l
Lead (Pb)	: 10 mg/l
Selenium (Se)	: 10 mg/l
Thallium (Tl)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13723.0100	100 ml	PE
CL01.13723.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. M-200.7-03R (4E) — CL01.13703

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Mixed Calibration Standard 3 — Contains 4 elements in 5% HNO3 (M-200.7-03R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Cerium (Ce)	: 20 mg/l
Cobalt (Co)	: 20 mg/l
Phosphorus (P)	: 100 mg/l
Vanadium (V)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13703.0100	100 ml	PE
CL01.13703.0500	500 ml	PE/H

Multi Element ICP TUNSOL Standard sol. M-200.7-TUNSOL-1 (2E) — CL01.13724

*ICP-EPA Methods (Method 200.7 Version 4.4, May 1994) - Tuning Solution (TUNSOL) - Adjusting the aerosol argon gas flow prior to calibration and analysis. Contains 2 elements in 5% HNO3 (TUNSOL-1)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Copper (Cu)	: 10 mg/l
Lead (Pb)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13724.0100	100 ml	PE
CL01.13724.0500	500 ml	PE/H

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EPA Method 6010 (SW-846 Revision 2)
ICP - AA (ICP-AES) Multi Element Standards

Multi Element ICP LPCS Standard sol. LPCS-01R (30E) — CL01.13774

*ICP-EPA Methods (Method 6010B) - Laboratory Performance Check Standard (LPCS) — Contains 30 elements in 5% HNO3 (LPCS-01R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 20 mg/l	Potassium (K)	: 100 mg/l
Antimony (Sb)	: 20 mg/l	Selenium (Se)	: 20 mg/l
Arsenic (As)	: 20 mg/l	Silicon (Si)	: 100 mg/l
Barium (Ba)	: 20 mg/l	Silver (Ag)	: 5 mg/l
Beryllium (Be)	: 20 mg/l	Sodium (Na)	: 20 mg/l
Boron (B)	: 20 mg/l	Strontium (Sr)	: 20 mg/l
Cadmium (Cd)	: 20 mg/l	Thallium (Tl)	: 20 mg/l
Calcium (Ca)	: 20 mg/l	Tin (Sn)	: 20 mg/l
Chromium (Cr)	: 20 mg/l	Titanium (Ti)	: 20 mg/l
Cobalt (Co)	: 20 mg/l	Vanadium (V)	: 20 mg/l
Copper (Cu)	: 20 mg/l	Zinc (Zn)	: 20 mg/l
Iron (Fe)	: 20 mg/l		
Lead (Pb)	: 20 mg/l		
Lithium (Li)	: 20 mg/l		
Magnesium (Mg)	: 20 mg/l		
Manganese (Mn)	: 20 mg/l		
Molybdenum (Mo)	: 20 mg/l		
Nickel (Ni)	: 20 mg/l		
Phosphorus (P)	: 100 mg/l		

Art. Nr.	Pack	Pack Type
CL01.13774.0100	100 ml	PE
CL01.13774.0500	500 ml	PE/H

Multi Element ICP QC Standard sol. (QCS-01) (23E) — CL01.13601

*ICP-Quality Control Standard # 1 (QCS) — Contains 23 elements in 5% HNO3 + traces HF (QCS-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 100 mg/l	Phosphorus (P)	: 100 mg/l
Arsenic (As)	: 100 mg/l	Selenium (Se)	: 100 mg/l
Beryllium (Be)	: 100 mg/l	Strontium (Sr)	: 100 mg/l
Cadmium (Cd)	: 100 mg/l	Thallium (Tl)	: 100 mg/l
Calcium (Ca)	: 100 mg/l	Tin (Sn)	: 100 mg/l
Chromium (Cr)	: 100 mg/l	Titanium (Ti)	: 100 mg/l
Cobalt (Co)	: 100 mg/l	Vanadium (V)	: 100 mg/l
Copper (Cu)	: 100 mg/l	Zinc (Zn)	: 100 mg/l
Iron (Fe)	: 100 mg/l		
Lead (Pb)	: 100 mg/l		
Lithium (Li)	: 100 mg/l		
Magnesium (Mg)	: 100 mg/l		
Manganese (Mn)	: 100 mg/l		
Molybdenum (Mo)	: 100 mg/l		
Nickel (Ni)	: 100 mg/l		

Art. Nr.	Pack	Pack Type
CL01.13601.0100	100 ml	PE
CL01.13601.0500	500 ml	PE/H

Multi Element ICP INT Standard sol. INT-B1 (12E) — CL01.13682

*ICP-EPA-CLP Methods (DIN 38406 - 6010B) - Interference Check Standard (INT) - Primary Analytes — Contains 12 element in 5% HNO3 (INT-B1)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Silver (Ag)	: 100 mg/l	Copper (Cu)	: 50 mg/l
Cadmium (Cd)	: 100 mg/l	Manganese (Mn)	: 50 mg/l
Nickel (Ni)	: 100 mg/l	Vanadium (V)	: 50 mg/l
Lead (Pb)	: 100 mg/l		
Zinc (Zn)	: 100 mg/l		
Barium (Ba)	: 50 mg/l		
Beryllium (Be)	: 50 mg/l		
Cobalt (Co)	: 50 mg/l		
Chromium (Cr)	: 50 mg/l		

Art. Nr.	Pack	Pack Type
CL01.13682.0100	100 ml	PE
CL01.13682.0500	500 ml	PE/H

EPA Method 6010 (SW-846 Revision 2)
ICP - AA (ICP-AES) Multi Element Standards

Multi Element ICP CAL Standard sol. MCS-04R (8E) — CL01.13804

*ICP-EPA Methods (Methods 6010A - 6010B) - Mixed Calibration Standard 4R — Contains 8 elements in 2% HNO3 (MCS-04R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 200 mg/l
Calcium (Ca)	: 1000 mg/l
Chromium (Cr)	: 20 mg/l
Lithium (Li)	: 100 mg/l
Nickel (Ni)	: 20 mg/l
Potassium (K)	: 400 mg/l
Sodium (Na)	: 200 mg/l
Strontium (Sr)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13804.0100	100 ml	PE
CL01.13804.0500	500 ml	PE/H

Multi Element ICP QC Standard sol. (QCS-02) (7E) — CL01.13602

*ICP-Quality Control Standard # 2 (QCS) — Contains 7 elements in 5% HNO3 + traces HF (QCS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Barium (Ba)	: 100 mg/l
Boron (B)	: 100 mg/l
Potassium (K)	: 1000 mg/l
Silicon (Si)	: 500 mg/l
Silver (Ag)	: 50 mg/l
Sodium (Na)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13602.0100	100 ml	PE
CL01.13602.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-01 (6E) — CL01.13731

*ICP-EPA Methods (Methods 6010A - 6010B - 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 1 01) — Contains 6 elements in 2% HNO3 (MCS-

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Beryllium (Be)	: 50 mg/l
Cadmium (Cd)	: 150 mg/l
Lead (Pb)	: 500 mg/l
Manganese (Mn)	: 100 mg/l
Selenium (Se)	: 200 mg/l
Zinc (Zn)	: 150 mg/l

Art. Nr.	Pack	Pack Type
CL01.13731.0100	100 ml	PE
CL01.13731.0500	500 ml	PE/H

Multi Element ICP Standard sol. PLASOL-R (5E) — CL01.13822

*ICP-EPA Methods (Method 6010B) - Profile Solution - Alternative (PLASOL) — Contains 5 element in 5% HNO3 (PLASOL-R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Chromium (Cr)	: 10 mg/l
Copper (Cu)	: 10 mg/l
Lithium (Li)	: 10 mg/l
Manganese (Mn)	: 10 mg/l
Vanadium (V)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13822.0100	100 ml	PE
CL01.13822.0500	500 ml	PE/H

A Certificate of Analysis is provided with each ICP standard stating:

- Actual certified concentration of the final solution
- Traceability to NIST
- Expiration date
- Trace impurities detected

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EPA Method 6010 (SW-846 Revision 2)
ICP - AA (ICP-AES) Multi Element Standards

Multi Element ICP CAL Standard sol. MCS-02 (5E) — CL01.13732

*ICP-EPA Methods (Methods 6010A - 6010B - 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 2 — Contains 5 elements in 2% HNO3 (MCS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Barium (Ba)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 10000 mg/l
Vanadium (V)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13732.0100	100 ml	PE
CL01.13732.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-06R (5E) — CL01.13807

*ICP-EPA Methods (Method 6010B) - Additional Analyte Calibration Standard 6R — Contains 5 elements in 5% HNO3 (MCS-06R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Phosphorus (P)	: 200 mg/l
Tin (Sn)	: 200 mg/l
Titanium (Ti)	: 100 mg/l
Boron (B)	: 50 mg/l
Silicon (Si)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13807.0100	100 ml	PE
CL01.13807.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-05R (4E) — CL01.13805

*ICP-EPA Methods (Methods 6010A - 6010B) - Mixed Calibration Standard 5R — Contains 4 elements in 2% HNO3 (MCS-05R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 200 mg/l
Magnesium (Mg)	: 1000 mg/l
Silver (Ag)	: 50 mg/l
Thallium (Tl)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13805.0100	100 ml	PE
CL01.13805.0500	500 ml	PE/H

Multi Element ICP Standard sol. PLASOL (3E) — CL01.13821

*ICP-EPA Methods (Method 6010B) - Profile Solution (PLASOL) — Contains 3 element in 5% HNO3 (PLASOL)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 10 mg/l
Lead (Pb)	: 10 mg/l
Selenium (Se)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13821.0100	100 ml	PE
CL01.13821.0500	500 ml	PE/H

EPA Method 6010 (SW-846 Revision 2)
ICP - AA (ICP-AES) Multi Element Standards

Multi Element ICP CAL Standard sol. MCS-03R (2E) — CL01.13803

*ICP-EPA Methods (Methods 6010A - 6010B) - Mixed Calibration Standard 3R — Contains 2 elements in 2% HNO3 + traces HF (MCS-03R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 500 mg/l
Molybdenum (Mo)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13803.0100	100 ml	PE
CL01.13803.0500	500 ml	PE/H

Multi Element ICP Standard sol. ICP-69N (1E) — CL01.13823

*ICP-EPA Methods (Method 6010B) - Nebulizer Adjustment Solution — Contains 1 element in 5% HNO3 (ICP-69N)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Yttrium (Y)	: 1000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13823.0100	100 ml	PE

Mono Element ICP CAL Standard sol. MCS-06 (1E) — CL01.13806

*ICP-EPA Methods (Methods 6010A - 6010B) - Mixed Calibration Standard 6 — Contains 1 elements in 2% HNO3 (MCS-06)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Phosphorus (P)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13806.0100	100 ml	PE
CL01.13806.0500	500 ml	PE/H

Mono Element ICP SP Standard sol. TCLP-02 (1E) — CL01.13773

*ICP-EPA Methods (Methods 6010B - 200.7 Version 3.3 and earlier) - Spiking & Mercury Standard - TCLP Standaard 2 HNO3 (TCLP-02) — Contains 1 elements in 5%

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Mercury (Hg)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13773.0100	100 ml	PE
CL01.13773.0500	500 ml	PE/H

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EPA Method 6010
ICP - AA (ICP-AES) Multi Element Standards

Multi Element ICP INT Standard sol. INT-01 (17E) — CL01.13811

*ICP-EPA Methods (Method 6010) - Interference Check Standard (INT) Contains 17 element in 5% HNO3 (INT-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 1000 mg/l
Barium (Ba)	: 300 mg/l
Beryllium (Be)	: 100 mg/l
Cadmium (Cd)	: 300 mg/l
Chromium (Cr)	: 300 mg/l
Cobalt (Co)	: 300 mg/l
Copper (Cu)	: 300 mg/l
Lead (Pb)	: 1000 mg/l
Manganese (Mn)	: 200 mg/l
Mercury (Hg)	: 50 mg/l
Nickel (Ni)	: 300 mg/l
Potassium (K)	: 20000 mg/l
Selenium (Se)	: 500 mg/l
Silver (Ag)	: 300 mg/l
Thallium (Tl)	: 1000 mg/l
Vanadium (V)	: 300 mg/l
Zinc (Zn)	: 300 mg/l

Art. Nr.	Pack	Pack Type
CL01.13811.0100	100 ml	PE
CL01.13811.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-04R (8E) — CL01.13804

*ICP-EPA Methods (Methods 6010A - 6010B) - Mixed Calibration Standard 4R Contains 8 elements in 2% HNO3 (MCS-04R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 200 mg/l
Calcium (Ca)	: 1000 mg/l
Chromium (Cr)	: 20 mg/l
Lithium (Li)	: 100 mg/l
Nickel (Ni)	: 20 mg/l
Potassium (K)	: 400 mg/l
Sodium (Na)	: 200 mg/l
Strontium (Sr)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13804.0100	100 ml	PE
CL01.13804.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-01 (6E) — CL01.13731

*ICP-EPA Methods (Methods 6010A - 6010B - 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 1 Contains 6 elements in 2% HNO3 (MCS-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Beryllium (Be)	: 50 mg/l
Cadmium (Cd)	: 150 mg/l
Lead (Pb)	: 500 mg/l
Manganese (Mn)	: 100 mg/l
Selenium (Se)	: 200 mg/l
Zinc (Zn)	: 150 mg/l

Art. Nr.	Pack	Pack Type
CL01.13731.0100	100 ml	PE
CL01.13731.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-05 (5E) — CL01.13735

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 5 Contains 5 elements in 2% HNO3 (MCS-05)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 200 mg/l
Boron (B)	: 100 mg/l
Magnesium (Mg)	: 1000 mg/l
Silver (Ag)	: 50 mg/l
Thallium (Tl)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13735.0100	100 ml	PE
CL01.13735.0500	500 ml	PE/H

EPA Method 6010
ICP - AA (ICP-AES) Multi Element Standards

Multi Element ICP CAL Standard sol. MCS-02 (5E) — CL01.13732

*ICP-EPA Methods (Methods 6010A - 6010B - 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 2 — Contains 5 elements in 2% HNO3 (MCS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Barium (Ba)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 10000 mg/l
Vanadium (V)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13732.0100	100 ml	PE
CL01.13732.0500	500 ml	PE/H

Multi Element ICP INT Standard sol. INT-04 (5E) — CL01.13814

*ICP-EPA Methods (Method 6010) - Interference Check Standard (INT) — Contains 5 element in 5% HNO3 (INT-04)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 1200 mg/l
Calcium (Ca)	: 6000 mg/l
Iron (Fe)	: 5000 mg/l
Magnesium (Mg)	: 3000 mg/l
Sodium (Na)	: 1000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13814.0100	100 ml	PE
CL01.13814.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-05R (4E) — CL01.13805

*ICP-EPA Methods (Methods 6010A - 6010B) - Mixed Calibration Standard 5R — Contains 4 elements in 2% HNO3 (MCS-05R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 200 mg/l
Magnesium (Mg)	: 1000 mg/l
Silver (Ag)	: 50 mg/l
Thallium (Tl)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13805.0100	100 ml	PE
CL01.13805.0500	500 ml	PE/H

Multi Element ICP INT Standard sol. INT-02 (4E) — CL01.13812

*ICP-EPA Methods (Method 6010) - Interference Check Standard (INT) — Contains 4 element in 5% HNO3 + traces HF (INT-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Boron (B)	: 500 mg/l
Molybdenum (Mo)	: 300 mg/l
Silicon (Si)	: 200 mg/l
Titanium (Ti)	: 1000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13812.0100	100 ml	PE
CL01.13812.0500	500 ml	PE/H

A Certificate of Analysis is provided with each ICP standard stating:

- Actual certified concentration of the final solution
- Traceability to NIST
- Expiration date
- Trace impurities detected

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EPA Method 6010
ICP - AA (ICP-AES) Multi Element Standards

Multi Element ICP CAL Standard sol. MCS-03 (3E) — CL01.13733

*ICP-EPA Methods (Method 200.7 Version 3.3 and earlier) - Mixed Calibration Standard 3 — Contains 3 elements in 2% HNO3 + traces HF (MCS-03)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Arsenic (As)	: 500 mg/l
Molybdenum (Mo)	: 100 mg/l
Silicon (Si)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13733.0100	100 ml	PE
CL01.13733.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. MCS-03R (2E) — CL01.13803

*ICP-EPA Methods (Methods 6010A - 6010B) - Mixed Calibration Standard 3R — Contains 2 elements in 2% HNO3 + traces HF (MCS-03R)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Arsenic (As)	: 500 mg/l
Molybdenum (Mo)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13803.0100	100 ml	PE
CL01.13803.0500	500 ml	PE/H

Mono Element ICP INT Standard sol. INT-03 (1E) — CL01.13813

*ICP-EPA Methods (Method 6010) - Interference Check Standard (INT) — Contains 1 element in 2% HNO3 (INT-03)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Antimony (Sb)	: 500 mg/l

Art. Nr.	Pack	Pack Type
CL01.13813.0100	100 ml	PE
CL01.13813.0500	500 ml	PE/H

Mono Element ICP CAL Standard sol. MCS-06 (1E) — CL01.13806

*ICP-EPA Methods (Methods 6010A - 6010B) - Mixed Calibration Standard 6 — Contains 1 elements in 2% HNO3 (MCS-06)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Phosphorus (P)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13806.0100	100 ml	PE
CL01.13806.0500	500 ml	PE/H

EPA Method 200.11
Determination of Metals in Fish Tissue by ICP - AA (ICP-AES) Multi Element Standards

Multi Element ICP Standard sol. LPCS-02 (18E) — CL01.13855

*ICP-EPA Methods (Method 200.11) - Laboratory Performance Check Standard — Contains 18 element in 5% HNO3 (LPCS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 10 mg/l
Antimony (Sb)	: 10 mg/l
Arsenic (As)	: 10 mg/l
Beryllium (Be)	: 10 mg/l
Cadmium (Cd)	: 10 mg/l
Calcium (Ca)	: 20 mg/l
Chromium (Cr)	: 10 mg/l
Copper (Cu)	: 10 mg/l
Iron (Fe)	: 10 mg/l
Lead (Pb)	: 10 mg/l
Magnesium (Mg)	: 20 mg/l
Nickel (Ni)	: 10 mg/l
Phosphorus (P)	: 100 mg/l
Potassium (K)	: 100 mg/l
Selenium (Se)	: 10 mg/l
Sodium (Na)	: 20 mg/l
Thallium (Tl)	: 10 mg/l
Zinc (Zn)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13855.0100	100 ml	PE
CL01.13855.0500	500 ml	PE/H

Multi Element ICP Standard sol. LFSS-02 (12E) — CL01.13856

*ICP-EPA Methods (Method 200.11) - Laboratory Fortifying Stock Solution — Contains 12 element in 5% HNO3 (LFSS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 50 mg/l
Antimony (Sb)	: 25 mg/l
Arsenic (As)	: 50 mg/l
Beryllium (Be)	: 2.5 mg/l
Cadmium (Cd)	: 5 mg/l
Chromium (Cr)	: 10 mg/l
Copper (Cu)	: 25 mg/l
Lead (Pb)	: 25 mg/l
Nickel (Ni)	: 25 mg/l
Selenium (Se)	: 50 mg/l
Thallium (Tl)	: 25 mg/l
Zinc (Zn)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13856.0100	100 ml	PE
CL01.13856.0500	500 ml	PE/H

Multi Element ICP Standard sol. WPTM-F (9E) — CL01.13857

*ICP-EPA Methods (Method 200.11) - QC Standards — Contains 9 element in 5% HNO3 (WPTM-F)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 100 mg/l
Cadmium (Cd)	: 5 mg/l
Chromium (Cr)	: 20 mg/l
Copper (Cu)	: 50 mg/l
Lead (Pb)	: 10 mg/l
Mercury (Hg)	: 100 mg/l
Nickel (Ni)	: 20 mg/l
Selenium (Se)	: 10 mg/l
Zinc (Zn)	: 1000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13857.0100	100 ml	PE
CL01.13857.0500	500 ml	PE/H

Multi Element ICP Standard sol. PCS-01 (7E) — CL01.13851

*ICP-EPA Methods (Method 200.11) - Primary Calibartion Standard Solutions — Contains 7 element in 5% HNO3 (PCS-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Antimony (Sb)	: 50 mg/l
Calcium (Ca)	: 100 mg/l
Cadmium (Cd)	: 20 mg/l
Copper (Cu)	: 10 mg/l
Magnesium (Mg)	: 100 mg/l
Selenium (Se)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13851.0100	100 ml	PE
CL01.13851.0500	500 ml	PE/H

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EPA Method 200.11
Determination of Metals in Fish Tissue by ICP - AA (ICP-AES) Multi Element Standards

Multi Element ICP Standard sol. PCS-04 (5E) — CL01.13854

*ICP-EPA Methods (Method 200.11) - Primary Calibartion Standard Solutions — Contains 5 element in 5% HNO3 (PCS-04)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Beryllium (Be)	: 10 mg/l
Iron (Fe)	: 100 mg/l
Nickel (Ni)	: 200 mg/l
Phosphorus (P)	: 100 mg/l
Potassium (K)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13854.0100	100 ml	PE
CL01.13854.0500	500 ml	PE/H

Multi Element ICP Standard sol. PCS-03 (4E) — CL01.13853

*ICP-EPA Methods (Method 200.11) - Primary Calibartion Standard Solutions — Contains 4 element in 5% HNO3 (PCS-03)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Lead (Pb)	: 100 mg/l
Sodium (Na)	: 100 mg/l
Thallium (Tl)	: 50 mg/l
Zinc (Zn)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13853.0100	100 ml	PE
CL01.13853.0500	500 ml	PE/H

Multi Element ICP Standard sol. PCS-02 (2E) — CL01.13852

*ICP-EPA Methods (Method 200.11) - Primary Calibartion Standard Solutions — Contains 2 element in 5% HNO3 (PCS-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 100 mg/l
Chromium (Cr)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13852.0100	100 ml	PE
CL01.13852.0500	500 ml	PE/H

REGISTERED ISO 9001 ANT97141.1 by LRQA

ACCREDITED ISO 17025 531-CAL by BELAC

ACCREDITED ISO GUIDE 34 531-RM by BELAC

Safe Drinking Water Act Standards (SWDA)
Multi Element Standards

Multi Element ICP Standard sol. SDWA-09 (19E) — CL01.13831

*ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Primary & Secondary Metals for GFAA/ICP/ICP-MS Analysis Contains 19 element in 2% HNO3 (SDWA-09)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 10 mg/l
Antimony (Sb)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Barium (Ba)	: 10 mg/l
Beryllium (Be)	: 10 mg/l
Cadmium (Cd)	: 10 mg/l
Calcium (Ca)	: 100 mg/l
Chromium (Cr)	: 10 mg/l
Copper (Cu)	: 10 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 10 mg/l
Manganese (Mn)	: 10 mg/l
Nickel (Ni)	: 10 mg/l
Selenium (Se)	: 10 mg/l
Silicon (Si)	: 100 mg/l
Silver (Ag)	: 10 mg/l
Sodium (Na)	: 100 mg/l
Thallium (Tl)	: 10 mg/l
Zinc (Zn)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13831.0100	100 ml	PE
CL01.13831.0500	500 ml	PE/H

Multi Element ICP Standard sol. SDWA-07 (14E) — CL01.13832

*ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Primary Metals for GFAA/ICP/ICP-MS Analysis Contains 14 element in 2% HNO3 (SDWA-07)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Barium (Ba)	: 10 mg/l
Beryllium (Be)	: 10 mg/l
Cadmium (Cd)	: 10 mg/l
Calcium (Ca)	: 100 mg/l
Chromium (Cr)	: 10 mg/l
Copper (Cu)	: 10 mg/l
Lead (Pb)	: 10 mg/l
Nickel (Ni)	: 10 mg/l
Selenium (Se)	: 10 mg/l
Silicon (Si)	: 100 mg/l
Sodium (Na)	: 100 mg/l
Thallium (Tl)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13832.0100	100 ml	PE
CL01.13832.0500	500 ml	PE/H

Multi Element ICP Standard sol. SDWA-06-MS (11E) — CL01.13834

*ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Primary Metals for ICP-MS Analysis (SDWA-07) Contains 11 element in 2% HNO3

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 10 mg/l
Arsenic (As)	: 10 mg/l
Barium (Ba)	: 10 mg/l
Beryllium (Be)	: 10 mg/l
Cadmium (Cd)	: 10 mg/l
Chromium (Cr)	: 10 mg/l
Copper (Cu)	: 10 mg/l
Lead (Pb)	: 10 mg/l
Nickel (Ni)	: 10 mg/l
Selenium (Se)	: 10 mg/l
Thallium (Tl)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13834.0100	100 ml	PE
CL01.13834.0500	500 ml	PE/H

Multi Element ICP Standard sol. SDWA-04 (9E) — CL01.13835

*ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Primary Metals for ICP Analysis Contains 9 element in 5% HNO3 (SDWA-4)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 100 mg/l
Barium (Ba)	: 10 mg/l
Beryllium (Be)	: 10 mg/l
Cadmium (Cd)	: 10 mg/l
Calcium (Ca)	: 100 mg/l
Chromium (Cr)	: 10 mg/l
Copper (Cu)	: 10 mg/l
Nickel (Ni)	: 10 mg/l
Sodium (Na)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13835.0100	100 ml	PE
CL01.13835.0500	500 ml	PE/H

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Safe Drinking Water Act Standards (SWDA)
Multi Element Standards

Multi Element ICP Standard sol. SDWA-05 (9E)

CL01.13836

*ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Primary Metals for GFAA Analysis

Contains 9 element in 5% HNO3 (SDWA-5)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Antimony (Sb)	: 10 mg/l
Arsenic (As)	: 10 mg/l
Cadmium (Cd)	: 10 mg/l
Chromium (Cr)	: 10 mg/l
Copper (Cu)	: 10 mg/l
Lead (Pb)	: 10 mg/l
Nickel (Ni)	: 10 mg/l
Selenium (Se)	: 10 mg/l
Thallium (Tl)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13836.0100	100 ml	PE
CL01.13836.0500	500 ml	PE/H

Multi Element IC Standard sol. IC-MAN-18 (6E)

CL01.13837

*ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Primary & Secondary Anions for Ion Chromatography Analysis

Contains 6 element in H2O (IC-MAN-18)

Density 1.02 g/ml
HS Nr 38220000

Fluoride	: 100 mg/l
Chloride	: 100 mg/l
Nitrite	: 100 mg/l
Nitrate	: 100 mg/l
Phosphate	: 100 mg/l
Sulfate	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13837.0100	100 ml	PE
CL01.13837.0500	500 ml	PE/H

Multi Element ICP Standard sol. SDWA-08 (5E)

CL01.13833

*ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Secondary Metals for GFAA/ICP/ICP-MS Analysis

Contains 5 element in 5% HNO3 (SDWA-08)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Aluminium (Al)	: 10 mg/l
Iron (Fe)	: 100 mg/l
Manganese (Mn)	: 10 mg/l
Silver (Ag)	: 10 mg/l
Zinc (Zn)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13833.0100	100 ml	PE
CL01.13833.0500	500 ml	PE/H

Multi Element IC Standard sol. IC-MAN-15R (4E)

CL01.13838

*ICP-EPA Methods - Safe Drinking Water Act (SDWA) for Inorg. Anal. - Primary Anions for Ion Chromatography Analysis

Contains 4 element in H2O (IC-MAN-15R)

Density 1.02 g/ml
HS Nr 38220000

Fluoride	: 100 mg/l
Nitrite	: 100 mg/l
Nitrate	: 100 mg/l
Phosphate	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13838.0100	100 ml	PE
CL01.13838.0500	500 ml	PE/H

Tailor Made Mixtures can be formulated to meet your special applications.

MISA Multi Element Standards

Multi Element ICP Standard sol. MISA-01 (18E) — CL01.13861

*ICP-EPA Methods (MISA Methods) - Rare Earth Metals - MISA Standard 1 — Contains 18 element in 5% HNO3 (MISA-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Cerium (Ce)	: 100 mg/l
Dysprosium (Dy)	: 100 mg/l
Erbium (Er)	: 100 mg/l
Europium (Eu)	: 100 mg/l
Gadolinium (Gd)	: 100 mg/l
Holmium (Ho)	: 100 mg/l
Lanthanum (La)	: 100 mg/l
Lutetium (Lu)	: 100 mg/l
Neodymium (Nd)	: 100 mg/l
Praseodymium (Pr)	: 100 mg/l
Scandium (Sc)	: 100 mg/l
Samarium (Sm)	: 100 mg/l
Terbium (Tb)	: 100 mg/l
Thorium (Th)	: 100 mg/l
Thulium (Tm)	: 100 mg/l
Uranium (U)	: 100 mg/l
Ytterbium (Yb)	: 100 mg/l
Yttrium (Y)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13861.0100	100 ml	PE
CL01.13861.0500	500 ml	PE/H

Multi Element ICP Standard sol. MISA-04 (16E) — CL01.13864

*ICP-EPA Methods (MISA Methods) - Alkali, Alkaline Earth, Non-Transition Group - MISA Standard 4 — Contains 16 element in 10% HNO3 (MISA-04)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H314
PNrs P280-P305 + P351 + P338-P310
DANGER.

Aluminium (Al)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Barium (Ba)	: 100 mg/l
Beryllium (Be)	: 100 mg/l
Bismuth (Bi)	: 100 mg/l
Calcium (Ca)	: 100 mg/l
Caesium (Cs)	: 100 mg/l
Gallium (Ga)	: 100 mg/l
Indium (In)	: 100 mg/l
Lithium (Li)	: 100 mg/l
Magnesium (Mg)	: 100 mg/l
Potassium (K)	: 100 mg/l
Rubidium (Rb)	: 100 mg/l
Selenium (Se)	: 100 mg/l
Sodium (Na)	: 100 mg/l
Strontium (Sr)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13864.0100	100 ml	PE
CL01.13864.0500	500 ml	PE/H

Multi Element ICP Standard sol. MISA-05 (15E) — CL01.13865

*ICP-EPA Methods (MISA Methods) - Fluoride Soluble Group - MISA Standard 5 — Contains 15 element in 2% HNO3 + traces HF (MISA-05)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 100 mg/l
Boron (B)	: 100 mg/l
Germanium (Ge)	: 100 mg/l
Hafnium (Hf)	: 100 mg/l
Molybdenum (Mo)	: 100 mg/l
Niobium (Nb)	: 100 mg/l
Phosphorus (P)	: 100 mg/l
Rhenium (Re)	: 100 mg/l
Silicon (Si)	: 100 mg/l
Sulfur (S)	: 100 mg/l
Tantalum (Ta)	: 100 mg/l
Tin (Sn)	: 100 mg/l
Titanium (Ti)	: 100 mg/l
Tungsten (W)	: 100 mg/l
Zirconium (Zr)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13865.0100	100 ml	PE
CL01.13865.0500	500 ml	PE/H

Multi Element ICP Standard sol. MISA-06 (13E) — CL01.13866

*ICP-EPA Methods (MISA Methods) - Transition Metals - MISA Standard 6 — Contains 13 element in 10% HNO3 (MISA-06)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H314
PNrs P280-P305 + P351 + P338-P310
DANGER.

Cadmium (Cd)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Chromium (Cr)	: 100 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Mercury (Hg)	: 100 mg/l
Nickel (Ni)	: 100 mg/l
Silver (Ag)	: 100 mg/l
Thallium (Tl)	: 100 mg/l
Vanadium (V)	: 100 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13866.0100	100 ml	PE
CL01.13866.0500	500 ml	PE/H

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MISA Multi Element Standards

Multi Element ICP Standard sol. MISA-02 (6E) — CL01.13862

*ICP-EPA Methods (MISA Methods) - Precious Metals - MISA Standard 2 — Contains 6 element in 10% HCl (MISA-02)

Density 1.02 g/ml
HS Nr 38220000
UN 1789
ADR 8,II
IATA 8,II
IMDG 8,II
HNrs H290-H314-H335
PNrs P280-P301 + P330 + P331-P309 + P310-P305 + P351 + P338

DANGER.

Gold (Au)	: 100 mg/l
Iridium (Ir)	: 100 mg/l
Palladium (Pd)	: 100 mg/l
Platinum (Pt)	: 100 mg/l
Rhodium (Rh)	: 100 mg/l
Ruthenium (Ru)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13862.0100	100 ml	PE
CL01.13862.0500	500 ml	PE/H

Multi Element ICP Standard sol. MISA-03 (1E) — CL01.13863

*ICP-EPA Methods (MISA Methods) - Tellurium - MISA Standard 3 — Contains 1 element in 10% HCl (MISA-03)

Density 1.02 g/ml
HS Nr 38220000
UN 1789
ADR 8,II
IATA 8,II
IMDG 8,II
HNrs H290-H314-H335
PNrs P280-P301 + P330 + P331-P309 + P310-P305 + P351 + P338

DANGER.

Tellurium (Te)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13863.0100	100 ml	PE
CL01.13863.0500	500 ml	PE/H

Multi Element ICP Blank sol. (CLP-BLH) — CL01.13992

*ICP-EPA-CLP Methods - Calibration & Matrix Blanks - Hydrochloric Acid Blank — Contains 5% HCl in ASTM Type II Water

Density 1.02 g/ml
HS Nr 38220000
UN 1789
ADR 8,II
IATA 8,II
IMDG 8,II
HNrs H317
PNrs P280

WARNING.

Art. Nr.	Pack	Pack Type
CL01.13992.1000	1 l	PE/H
CL01.13992.2500	2,5 l	PE/H

Multi Element ICP Blank sol. (CLP-BLW) — CL01.13993

*ICP-EPA-CLP Methods - Calibration & Matrix Blanks - ASTM Type II Water — ASTM Type II Water

Density 1.00 g/ml
HS Nr 38220000

Art. Nr.	Pack	Pack Type
CL01.13993.1000	1 l	PE/H
CL01.13993.2500	2,5 l	PE/H

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MISA Multi Element Standards

Multi Element ICP Blank sol. (CLP-BLN) CL01.13991

*ICP-EPA-CLP Methods - Calibration & Matrix Blanks - Nitric Acid Blank Contains 5% HNO3 in ASTM Type II Water

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Art. Nr.	Pack	Pack Type
CL01.13991.1000	1 l	PE/H
CL01.13991.2500	2,5 l	PE

Multi Element ICP Blank sol. (CLP-BLMA) CL01.13994

*ICP-EPA-CLP Methods - Calibration & Matrix Blanks - Mixed Acid Blank Contains 5% HCl + 1% HNO3 in ASTM Type II Water

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H317
PNrs P280-P305 + P351 + P338
WARNING.

Art. Nr.	Pack	Pack Type
CL01.13994.1000	1 l	PE/H
CL01.13994.2500	2,5 l	PE

Ground Water and Wastewater Standards

Multi Element ICP Standard sol. WPTM-01 (15E) — CL01.13841

ICP-EPA Methods - Groundwater & Wastewater Standards - Trace Metals I — Contains 15 element in 5% HNO3 (WPTM-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 500 mg/l
Arsenic (As)	: 100 mg/l
Beryllium (Be)	: 100 mg/l
Cadmium (Cd)	: 25 mg/l
Chromium (Cr)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Copper (Cu)	: 100 mg/l
Iron (Fe)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Mercury (Hg)	: 5 mg/l
Nickel (Ni)	: 100 mg/l
Selenium (Se)	: 25 mg/l
Vanadium (V)	: 250 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13841.0100	100 ml	PE
CL01.13841.0500	500 ml	PE/H

Multi Element ICP Standard sol. WPAM-01 (11E) — CL01.13844

*ICP-EPA Methods - Alternate Groundwater & Wastewater Standards - Alternate Metals I — Contains 11 element in 2% HNO3 (WPAM-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 20 mg/l
Antimony (Sb)	: 5 mg/l
Beryllium (Be)	: 5 mg/l
Cobalt (Co)	: 10 mg/l
Copper (Cu)	: 10 mg/l
Iron (Fe)	: 20 mg/l
Manganese (Mn)	: 10 mg/l
Nickel (Ni)	: 10 mg/l
Thallium (Tl)	: 5 mg/l
Vanadium (V)	: 20 mg/l
Zinc (Zn)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13844.0100	100 ml	PE
CL01.13844.0500	500 ml	PE/H

Multi Element ICP Standard sol. TCLP-01 (7E) — CL01.13846

*ICP-EPA Methods - Groundwater & Wastewater Standards - TCLP Multi-Element Calibration Standards - TCLP Standard 1 HNO3 (TCLP-01) — Contains 7 element in 5%

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 25 mg/l
Barium (Ba)	: 500 mg/l
Cadmium (Cd)	: 5 mg/l
Chromium (Cr)	: 25 mg/l
Lead (Pb)	: 25 mg/l
Selenium (Se)	: 5 mg/l
Silver (Ag)	: 25 mg/l

Art. Nr.	Pack	Pack Type
CL01.13846.0100	100 ml	PE
CL01.13846.0500	500 ml	PE/H

Multi Element ICP Standard sol. WPTM-03 (6E) — CL01.13843

*ICP-EPA Methods - Groundwater & Wastewater Standards - Trace Metals III — Contains 6 element in 5% HNO3 + traces HF (WPTM-03)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Barium (Ba)	: 500 mg/l
Calcium (Ca)	: 500 mg/l
Magnesium (Mg)	: 100 mg/l
Molybdenum (Mo)	: 500 mg/l
Potassium (K)	: 100 mg/l
Sodium (Na)	: 500 mg/l

Art. Nr.	Pack	Pack Type
CL01.13843.0100	100 ml	PE
CL01.13843.0500	500 ml	PE/H

Ground Water and Wastewater Standards

Multi Element ICP Standard sol. TCLP-ICP (4E) — CL01.13847

*ICP-EPA Methods - Groundwater & Wastewater Standards - TCLP Multi-Element Calibration Standards - TCLP Standard for ICP in 2% HNO3 (TCLP-ICP)

Contains 4 element

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Barium (Ba)	: 500 mg/l
Cadmium (Cd)	: 5 mg/l
Chromium (Cr)	: 25 mg/l
Silver (Ag)	: 25 mg/l

Art. Nr.	Pack	Pack Type
CL01.13847.0100	100 ml	PE
CL01.13847.0500	500 ml	PE/H

Multi Element ICP Standard sol. WPAM-03 (4E) — CL01.13845

*ICP-EPA Methods - Alternate Groundwater & Wastewater Standards - Alternate Metals III

Contains 4 element in 2% HNO3 (WPAM-03)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Calcium (Ca)	: 500 mg/l
Magnesium (Mg)	: 100 mg/l
Potassium (K)	: 100 mg/l
Sodium (Na)	: 500 mg/l

Art. Nr.	Pack	Pack Type
CL01.13845.0100	100 ml	PE
CL01.13845.0500	500 ml	PE/H

Multi Element ICP Standard sol. WPTM-02 (3E) — CL01.13842

*ICP-EPA Methods - Groundwater & Wastewater Standards - Trace Metals II

Contains 3 element in 2% HNO3 (WPTM-02)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Antimony (Sb)	: 20 mg/l
Silver (Ag)	: 10 mg/l
Thallium (Tl)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13842.0100	100 ml	PE
CL01.13842.0500	500 ml	PE/H

Multi Element ICP Standard sol. TCLP-GFAA (3E) — CL01.13848

*ICP-EPA Methods - Groundwater & Wastewater Standards - TCLP Multi-Element Calibration Standards - TCLP Standard for GFAA

Contains 3 element in 5% HNO3 (TCLP-GFAA)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Arsenic (As)	: 25 mg/l
Lead (Pb)	: 25 mg/l
Selenium (Se)	: 5 mg/l

Art. Nr.	Pack	Pack Type
CL01.13848.0100	100 ml	PE
CL01.13848.0500	500 ml	PE/H

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Mono Element ICP SP Standard sol. TCLP-02 (1E)

CL01.13773

*ICP-EPA Methods (Methods 6010B - 200.7 Version 3.3 and earlier) - Spiking & Mercury Standard - TCLP Standaard 2 HNO3 (TCLP-02)

Contains 1 elements in 5%

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Mercury (Hg)	: 20 mg/l

Art. Nr.	Pack	Pack Type
CL01.13773.0100	100 ml	PE
CL01.13773.0500	500 ml	PE/H

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ISO 9001
ANT97141.1 by LRQA

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ACCREDITED
ISO GUIDE 34
531-RM by BELAC

Contract Laboratory Program Multi Element Standards

Multi Element ICP ICV Standard sol. ICV-01-R (22E) — CL01.13655

*ICP-EPA-CLP Methods (DIN 38406) - Initial Calibration Verification Standard (ICV)

Contains 22 elements in 5% HNO3 (ICV-01-R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 500 mg/l
Potassium (K)	: 500 mg/l
Magnesium (Mg)	: 500mg/l
Sodium (Na)	: 500 mg/l
Aluminium (Al)	: 200 mg/l
Barium (Ba)	: 200 mg/l
Iron (Fe)	: 100 mg/l
Antimony (Sb)	: 60 mg/l
Cobalt (Co)	: 50 mg/l
Vanadium (V)	: 50 mg/l
Nickel (Ni)	: 40 mg/l
Copper (Cu)	: 25 mg/l
Zinc (Zn)	: 20 mg/l
Manganese (Mn)	: 15 mg/l

Silver (Ag)	: 10 mg/l
Arsenic (As)	: 10 mg/l
Chromium (Cr)	: 10 mg/l
Thallium (Tl)	: 10 mg/l
Beryllium (Be)	: 5 mg/l
Cadmium (Cd)	: 5 mg/l
Lead (Pb)	: 5 mg/l
Selenium (Se)	: 5 mg/l

Art. Nr.	Pack	Pack Type
CL01.13655.0100	100 ml	PE
CL01.13655.0500	500 ml	PE/H

Multi Element ICP ICV Standard sol. ICV-01 (22E) — CL01.13651

*ICP-EPA-CLP Methods (DIN 38406) - Initial Calibration Verification Standard (ICV)

Contains 22 elements in 5% HNO3 (ICV-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 5000 mg/l
Potassium (K)	: 5000 mg/l
Magnesium (Mg)	: 5000 mg/l
Sodium (Na)	: 5000 mg/l
Aluminium (Al)	: 200 mg/l
Barium (Ba)	: 200 mg/l
Iron (Fe)	: 100 mg/l
Antimony (Sb)	: 60 mg/l
Cobalt (Co)	: 50 mg/l
Vanadium (V)	: 50 mg/l
Nickel (Ni)	: 40 mg/l
Copper (Cu)	: 25 mg/l
Zinc (Zn)	: 20 mg/l
Manganese (Mn)	: 15 mg/l

Silver (Ag)	: 10 mg/l
Arsenic (As)	: 10 mg/l
Chromium (Cr)	: 10 mg/l
Thallium (Tl)	: 10 mg/l
Beryllium (Be)	: 5 mg/l
Cadmium (Cd)	: 5 mg/l
Lead (Pb)	: 5 mg/l
Selenium (Se)	: 5 mg/l

Art. Nr.	Pack	Pack Type
CL01.13651.0100	100 ml	PE
CL01.13651.0500	500 ml	PE/H

Multi Element ICP ICV Standard sol. CCV-01 (16E) — CL01.13656

*ICP-EPA-CLP Methods (DIN 38406) - Continuing Calibration Verification Standard (CCV)

Contains 16 elements in 5% HNO3 (CCV-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 2500 mg/l
Potassium (K)	: 2500 mg/l
Magnesium (Mg)	: 2500 mg/l
Sodium (Na)	: 2500 mg/l
Aluminium (Al)	: 1000 mg/l
Barium (Ba)	: 1000 mg/l
Iron (Fe)	: 500 mg/l
Cobalt (Co)	: 250 mg/l
Nickel (Ni)	: 200 mg/l
Vanadium (V)	: 250 mg/l
Chromium (Cr)	: 50 mg/l

Copper (Cu)	: 125 mg/l
Silver (Ag)	: 50 mg/l
Beryllium (Be)	: 25 mg/l
Manganese (Mn)	: 75 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13656.0100	100 ml	PE
CL01.13656.0500	500 ml	PE/H

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Contract Laboratory Program Multi Element Standards

Multi Element ICP INT Standard sol. INT-B1 (12E) — CL01.13686

*ICP-EPA-CLP Methods - Analyte Solution CLP-PAN-01 - Primary Analytes — Contains 12 element in 5% HNO3 (INT-A2) - (CLP-PAN-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Silver (Ag)	: 100 mg/l
Barium (Ba)	: 50 mg/l
Beryllium (Be)	: 50 mg/l
Cadmium (Cd)	: 100 mg/l
Cobalt (Co)	: 50 mg/l
Chromium (Cr)	: 50 mg/l
Copper (Cu)	: 50 mg/l
Manganese (Mn)	: 50 mg/l
Nickel (Ni)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Vanadium (V)	: 50 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13686.0100	100 ml	PE
CL01.13686.0500	500 ml	PE/H

Multi Element ICP INT Standard sol. INT-B2 (12E) — CL01.13684

*ICP-EPA-CLP Methods (DIN 38406) - Interference Check Standard (INT) - Alternate Analytes — Contains 12 element in 5% HNO3 (INT-B2) - (CLP-PAN-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Boron (B)	: 100 mg/l
Molybdenum (Mo)	: 100 mg/l
Sodium (Na)	: 100 mg/l
Antimony (Sb)	: 100 mg/l
Selenium (Se)	: 100 mg/l
Thallium (Tl)	: 100 mg/l
Calcium (Ca)	: 10 mg/l
Iron (Fe)	: 10 mg/l
Magnesium (Mg)	: 10 mg/l
Silicon (Si)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13684.0100	100 ml	PE
CL01.13684.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. CAL-03 (7E) — CL01.13643

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) — Contains 7 elements in 5% HNO3 (CAL-03)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 2000 mg/l
Barium (Ba)	: 2000 mg/l
Beryllium (Be)	: 50 mg/l
Cobalt (Co)	: 500 mg/l
Copper (Cu)	: 250 mg/l
Iron (Fe)	: 1000 mg/l
Vanadium (V)	: 500 mg/l

Art. Nr.	Pack	Pack Type
CL01.13643.0100	100 ml	PE
CL01.13643.0500	500 ml	PE/H

Multi Element ICP INT Standard sol. INT-A2 (6E) — CL01.13683

*ICP-EPA-CLP Methods (DIN 38406) - Interference Check Standard (INT) - Alternate Interferents — Contains 6 element in 5% HNO3 (INT-A2) - (CLP-PIN-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Chromium (Cr)	: 1000 mg/l
Copper (Cu)	: 1000 mg/l
Manganese (Mn)	: 1000 mg/l
Nickel (Ni)	: 1000 mg/l
Titanium (Ti)	: 1000 mg/l
Vanadium (V)	: 1000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13683.0100	100 ml	PE
CL01.13683.0500	500 ml	PE/H

Contract Laboratory Program Multi Element Standards

Multi Element ICP CAL Standard sol. CAL-04 (5E) — CL01.13644

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 5 elements in 5% HNO3 (CAL-04)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 100 mg/l
Cadmium (Cd)	: 50 mg/l
Lead (Pb)	: 50 mg/l
Selenium (Se)	: 50 mg/l
Thallium (Tl)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13644.0100	100 ml	PE
CL01.13644.0500	500 ml	PE/H

Multi Element ICP ICV Standard sol. CCV-02 (5E) — CL01.13657

*ICP-EPA-CLP Methods (DIN 38406) - Continuing Calibration Verification Standard (CCV) Contains 5 elements in 5% HNO3 (CCV-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Readily Carbonizable Substances	: 50 mg/l
Lead (Pb)	: 25 mg/l
Selenium (Se)	: 25 mg/l
Thallium (Tl)	: 50 mg/l
Cadmium (Cd)	: 25 mg/l

Art. Nr.	Pack	Pack Type
CL01.13657.0100	100 ml	PE
CL01.13657.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. CAL-02 (5E) — CL01.13642

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 5 elements in 5% HNO3 (CAL-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Chromium (Cr)	: 100 mg/l
Manganese (Mn)	: 150 mg/l
Nickel (Ni)	: 400 mg/l
Silver (Ag)	: 100 mg/l
Zinc (Zn)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13642.0100	100 ml	PE
CL01.13642.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. CAL-01 (4E) — CL01.13641

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 4 elements in 5% HNO3 (CAL-01)

Density 1.10 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 5000 mg/l
Magnesium (Mg)	: 5000 mg/l
Potassium (K)	: 5000 mg/l
Sodium (Na)	: 5000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13641.0100	100 ml	PE
CL01.13641.0500	500 ml	PE/H

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Contract Laboratory Program Multi Element Standards

Multi Element ICP INT Standard sol. INT-A1 (4E) — CL01.13681

*ICP-EPA-CLP Methods (DIN 38406 - 6010B) - Interference Check Standard (INT) - Primary Interferents (CLP - PIN-01)

Contains 4 element in 5% HNO3 (INT-A1) -

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Aluminium (Al)	: 5000 mg/l
Calcium (Ca)	: 5000 mg/l
Magnesium (Mg)	: 5000 mg/l
Iron (Fe)	: 2000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13681.0100	100 ml	PE
CL01.13681.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. CAL-07 (3E) — CL01.13647

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL)

Contains 3 elements in 5% HNO3 + traces HF (CAL-07)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Boron (B)	: 500 mg/l
Molybdenum (Mo)	: 500 mg/l
Silicon (Si)	: 500 mg/l

Art. Nr.	Pack	Pack Type
CL01.13647.0100	100 ml	PE
CL01.13647.0500	500 ml	PE/H

Mono Element ICP CAL Standard sol. CAL-05 (1E) — CL01.13645

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL)

Contains 1 elements in 2% HNO3 (CAL-05)

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H315
PNrs P280-P305 + P351 + P338

WARNING.

Antimony (Sb)	: 600 mg/l

Art. Nr.	Pack	Pack Type
CL01.13645.0100	100 ml	PE
CL01.13645.0500	500 ml	PE/H

Multi Element ICP Blank sol. (CLP-BLMA) — CL01.13994

*ICP-EPA-CLP Methods - Calibration & Matrix Blanks - Mixed Acid Blank

Contains 5% HCl + 1% HNO3 in ASTM Type II Water

Density 1.02 g/ml
HS Nr 38220000

UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III

HNrs H317
PNrs P280-P305 + P351 + P338

WARNING.

Art. Nr.	Pack	Pack Type
CL01.13994.1000	1 l	PE/H
CL01.13994.2500	2,5 l	PE

Multi Element ICP Blank sol. (CLP-BLW) — CL01.13993

*ICP-EPA-CLP Methods - Calibration & Matrix Blanks - ASTM Type II Water

ASTM Type II Water

Density 1.00 g/ml
HS Nr 38220000

Art. Nr.	Pack	Pack Type
CL01.13993.1000	1 l	PE/H
CL01.13993.2500	2,5 l	PE/H

Contract Laboratory Program Multi Element Standards

Multi Element ICP Blank sol. (CLP-BLH) CL01.13992

*ICP-EPA-CLP Methods - Calibration & Matrix Blanks - Hydrochloric Acid Blank — Contains 5% HCl in ASTM Type II Water

Density 1.02 g/ml
HS Nr 38220000
UN 1789
ADR 8,II
IATA 8,II
IMDG 8,II
HNrs H317
PNrs P280
WARNING.

Art. Nr.	Pack	Pack Type
CL01.13992.1000	1 l	PE/H
CL01.13992.2500	2,5 l	PE/H

Mono Element ICP ICV Standard sol. CCV-03 (1E) CL01.13658

*ICP-EPA-CLP Methods (DIN 38406) - Continuing Calibration Verification Standard (CCV) — Contains 1 elements in 2% HNO3 (CCV-03)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb) : 300 mg/l

Art. Nr.	Pack	Pack Type
CL01.13658.0100	100 ml	PE
CL01.13658.0500	500 ml	PE/H

Mono Element ICP CAL Standard sol. CAL-06 (1E) CL01.13646

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) — Contains 1 elements in 5% HNO3 (CAL-06)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Mercury (Hg) : 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13646.0100	100 ml	PE
CL01.13646.0500	500 ml	PE/H

Multi Element ICP Blank sol. (CLP-BLN) CL01.13991

*ICP-EPA-CLP Methods - Calibration & Matrix Blanks - Nitric Acid Blank — Contains 5% HNO3 in ASTM Type II Water

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Art. Nr.	Pack	Pack Type
CL01.13991.1000	1 l	PE/H
CL01.13991.2500	2,5 l	PE

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DIN 38406
German standard methods for the examination of water, waste water and sludge - Cations

Multi Element ICP ICV Standard sol. ICV-01-R (22E) — CL01.13655

*ICP-EPA-CLP Methods (DIN 38406) - Initial Calibration Verification Standard (ICV)

Contains 22 elements in 5% HNO3 (ICV-01-R)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 500 mg/l
Potassium (K)	: 500 mg/l
Magnesium (Mg)	: 500mg/l
Sodium (Na)	: 500 mg/l
Aluminium (Al)	: 200 mg/l
Barium (Ba)	: 200 mg/l
Iron (Fe)	: 100 mg/l
Antimony (Sb)	: 60 mg/l
Cobalt (Co)	: 50 mg/l
Vanadium (V)	: 50 mg/l
Nickel (Ni)	: 40 mg/l
Copper (Cu)	: 25 mg/l
Zinc (Zn)	: 20 mg/l
Manganese (Mn)	: 15 mg/l

Silver (Ag)	: 10 mg/l
Arsenic (As)	: 10 mg/l
Chromium (Cr)	: 10 mg/l
Thallium (Tl)	: 10 mg/l
Beryllium (Be)	: 5 mg/l
Cadmium (Cd)	: 5 mg/l
Lead (Pb)	: 5 mg/l
Selenium (Se)	: 5 mg/l

Art. Nr.	Pack	Pack Type
CL01.13655.0100	100 ml	PE
CL01.13655.0500	500 ml	PE/H

Multi Element ICP ICV Standard sol. ICV-01 (22E) — CL01.13651

*ICP-EPA-CLP Methods (DIN 38406) - Initial Calibration Verification Standard (ICV)

Contains 22 elements in 5% HNO3 (ICV-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 5000 mg/l
Potassium (K)	: 5000 mg/l
Magnesium (Mg)	: 5000 mg/l
Sodium (Na)	: 5000 mg/l
Aluminium (Al)	: 200 mg/l
Barium (Ba)	: 200 mg/l
Iron (Fe)	: 100 mg/l
Antimony (Sb)	: 60 mg/l
Cobalt (Co)	: 50 mg/l
Vanadium (V)	: 50 mg/l
Nickel (Ni)	: 40 mg/l
Copper (Cu)	: 25 mg/l
Zinc (Zn)	: 20 mg/l
Manganese (Mn)	: 15 mg/l

Silver (Ag)	: 10 mg/l
Arsenic (As)	: 10 mg/l
Chromium (Cr)	: 10 mg/l
Thallium (Tl)	: 10 mg/l
Beryllium (Be)	: 5 mg/l
Cadmium (Cd)	: 5 mg/l
Lead (Pb)	: 5 mg/l
Selenium (Se)	: 5 mg/l

Art. Nr.	Pack	Pack Type
CL01.13651.0100	100 ml	PE
CL01.13651.0500	500 ml	PE/H

Multi Element ICP Spike Standard sol. Spike-1 (18E) — CL01.13671

ICP-EPA-CLP Methods (DIN 38406) - Spiking standard for ICP and AA

Contains 18 elements in 5% HNO3 (Spike-1)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 200 mg/l
Arsenic (As)	: 200 mg/l
Barium (Ba)	: 200 mg/l
Selenium (Se)	: 200 mg/l
Thallium (Tl)	: 200 mg/l
Iron (Fe)	: 100 mg/l
Antimony (Sb)	: 50 mg/l
Cobalt (Co)	: 50 mg/l
Lead (Pb)	: 50 mg/l
Manganese (Mn)	: 50 mg/l
Nickel (Ni)	: 50 mg/l
Vanadium (V)	: 50 mg/l

Zinc (Zn)	: 50 mg/l
Copper (Cu)	: 25 mg/l
Chromium (Cr)	: 20 mg/l
Beryllium (Be)	: 5 mg/l
Cadmium (Cd)	: 5 mg/l
Silver (Ag)	: 5 mg/l

Art. Nr.	Pack	Pack Type
CL01.13671.0100	100 ml	PE
CL01.13671.0500	500 ml	PE/H

DIN 38406
German standard methods for the examination of water, waste water and sludge - Cations

Multi Element ICP ICV Standard sol. CCV-01 (16E) — CL01.13656

*ICP-EPA-CLP Methods (DIN 38406) - Continuing Calibration Verification Standard (CCV) Contains 16 elements in 5% HNO3 (CCV-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 2500 mg/l
Potassium (K)	: 2500 mg/l
Magnesium (Mg)	: 2500 mg/l
Sodium (Na)	: 2500 mg/l
Aluminium (Al)	: 1000 mg/l
Barium (Ba)	: 1000 mg/l
Iron (Fe)	: 500 mg/l
Cobalt (Co)	: 250 mg/l
Nickel (Ni)	: 200 mg/l
Vanadium (V)	: 250 mg/l
Chromium (Cr)	: 50 mg/l
Copper (Cu)	: 125 mg/l
Silver (Ag)	: 50 mg/l
Beryllium (Be)	: 25 mg/l
Manganese (Mn)	: 75 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13656.0100	100 ml	PE
CL01.13656.0500	500 ml	PE/H

Multi Element ICP INT Standard sol. INT-B3 (16E) — CL01.13685

ICP-EPA-CLP Methods (DIN 38406) - Interference Check Standard (INT) Contains 16 element in 5% HNO3 (INT-B3)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Cadmium (Cd)	: 100 mg/l
Nickel (Ni)	: 100 mg/l
Zinc (Zn)	: 100 mg/l
Antimony (Sb)	: 60 mg/l
Barium (Ba)	: 50 mg/l
Beryllium (Be)	: 50 mg/l
Cobalt (Co)	: 50 mg/l
Chromium (Cr)	: 50 mg/l
Copper (Cu)	: 50 mg/l
Manganese (Mn)	: 50 mg/l
Vanadium (V)	: 50 mg/l
Silver (Ag)	: 20 mg/l
Arsenic (As)	: 10 mg/l
Thallium (Tl)	: 10 mg/l
Lead (Pb)	: 5 mg/l
Selenium (Se)	: 5 mg/l

Art. Nr.	Pack	Pack Type
CL01.13685.0100	100 ml	PE
CL01.13685.0500	500 ml	PE/H

Multi Element ICP ICV Standard sol. CCV-01 (16E) — CL01.13652

ICP-EPA-CLP Methods (DIN 38406) - Continuing Calibration Verification Standard (CCV) Contains 16 elements in 5% HNO3 (CCV-01)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 2000 mg/l
Potassium (K)	: 2000 mg/l
Magnesium (Mg)	: 2000 mg/l
Sodium (Na)	: 2000 mg/l
Aluminium (Al)	: 1000 mg/l
Barium (Ba)	: 1000 mg/l
Iron (Fe)	: 1000 mg/l
Cobalt (Co)	: 500 mg/l
Nickel (Ni)	: 500 mg/l
Vanadium (V)	: 500 mg/l
Chromium (Cr)	: 200 mg/l
Copper (Cu)	: 200 mg/l
Silver (Ag)	: 100 mg/l
Beryllium (Be)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Zinc (Zn)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13652.0100	100 ml	PE
CL01.13652.0500	500 ml	PE/H

Multi Element ICP Spike Standard sol. Spike-3 (16E) — CL01.13675

ICP-EPA-CLP Methods (DIN 38406) - Spiking standard for ICP and AA Contains 16 element in 5% HNO3 (Spike-3)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 400 mg/l
Barium (Ba)	: 400 mg/l
Selenium (Se)	: 400 mg/l
Thallium (Tl)	: 400 mg/l
Antimony (Sb)	: 100 mg/l
Cobalt (Co)	: 100 mg/l
Lead (Pb)	: 100 mg/l
Manganese (Mn)	: 100 mg/l
Nickel (Ni)	: 100 mg/l
Vanadium (V)	: 100 mg/l
Zinc (Zn)	: 100 mg/l
Copper (Cu)	: 50 mg/l
Chromium (Cr)	: 40 mg/l
Beryllium (Be)	: 10 mg/l
Cadmium (Cd)	: 10 mg/l
Silver (Ag)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13675.0100	100 ml	PE
CL01.13675.0500	500 ml	PE/H

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DIN 38406
German standard methods for the examination of water, waste water and sludge - Cations

Multi Element ICP CAL Standard sol. CAL-08 (16E) — CL01.13648

ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) — Contains 16 elements in 5% HNO3 (CAL-08)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 5000 mg/l
Magnesium (Mg)	: 5000 mg/l
Potassium (K)	: 5000 mg/l
Sodium (Na)	: 5000 mg/l
Aluminium (Al)	: 2000 mg/l
Barium (Ba)	: 2000 mg/l
Iron (Fe)	: 1000 mg/l
Cobalt (Co)	: 500 mg/l
Manganese (Mn)	: 500 mg/l
Nickel (Ni)	: 500 mg/l
Vanadium (V)	: 500 mg/l
Zinc (Zn)	: 500 mg/l
Copper (Cu)	: 250 mg/l
Silver (Ag)	: 250 mg/l
Chromium (Cr)	: 200 mg/l
Beryllium (Be)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13648.0100	100 ml	PE
CL01.13648.0500	500 ml	PE/H

Multi Element ICP CRDL Standard sol. CRDL-1 (15E) — CL01.13661

ICP-EPA-CLP Methods (DIN 38406) - Contract requiered detection limits standard (CRDL) — Contains 15 elements in 5% HNO3 (CRDL-1)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 120 mg/l
Cobalt (Co)	: 100 mg/l
Vanadium (V)	: 100 mg/l
Nickel (Ni)	: 80 mg/l
Copper (Cu)	: 50 mg/l
Zinc (Zn)	: 40 mg/l
Manganese (Mn)	: 30 mg/l
Arsenic (As)	: 20 mg/l
Chromium (Cr)	: 20 mg/l
Silver (Ag)	: 20 mg/l
Thallium (Tl)	: 20 mg/l
Beryllium (Be)	: 10 mg/l
Cadmium (Cd)	: 10 mg/l
Selenium (Se)	: 10 mg/l
Lead (Pb)	: 6 mg/l

Art. Nr.	Pack	Pack Type
CL01.13661.0100	100 ml	PE
CL01.13661.0500	500 ml	PE/H

Multi Element ICP Spike Standard sol. Spike-2A (12E) — CL01.13672

ICP-EPA-CLP Methods (DIN 38406) - Spiking standard for ICP and AA — Contains 12 elements in 5% HNO3 (Spike-2A)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 2000 mg/l
Barium (Ba)	: 2000 mg/l
Iron (Fe)	: 1000 mg/l
Cobalt (Co)	: 500 mg/l
Manganese (Mn)	: 500 mg/l
Nickel (Ni)	: 500 mg/l
Vanadium (V)	: 500 mg/l
Zinc (Zn)	: 500 mg/l
Copper (Cu)	: 250 mg/l
Chromium (Cr)	: 200 mg/l
Beryllium (Be)	: 50 mg/l
Silver (Ag)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13672.0100	100 ml	PE
CL01.13672.0500	500 ml	PE/H

Multi Element ICP INT Standard sol. INT-B2 (12E) — CL01.13684

*ICP-EPA-CLP Methods (DIN 38406) - Interference Check Standard (INT) - Alternate Analytes — Contains 12 element in 5% HNO3 (INT-B2) - (CLP-PAN-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 100 mg/l
Arsenic (As)	: 100 mg/l
Boron (B)	: 100 mg/l
Molybdenum (Mo)	: 100 mg/l
Sodium (Na)	: 100 mg/l
Antimony (Sb)	: 100 mg/l
Selenium (Se)	: 100 mg/l
Thallium (Tl)	: 100 mg/l
Calcium (Ca)	: 10 mg/l
Iron (Fe)	: 10 mg/l
Magnesium (Mg)	: 10 mg/l
Silicon (Si)	: 10 mg/l

Art. Nr.	Pack	Pack Type
CL01.13684.0100	100 ml	PE
CL01.13684.0500	500 ml	PE/H

DIN 38406
German standard methods for the examination of water, waste water and sludge - Cations

Multi Element ICP CRDL Standard sol. CRDL-4A (9E) — CL01.13662

ICP-EPA-CLP Methods (DIN 38406) - Contract requiered detection limits standard (CRDL) Contains 9 elements in 5% HNO3 (CRDL-4A)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Cobalt (Co)	: 1000 mg/l
Vanadium (V)	: 1000 mg/l
Nickel (Ni)	: 800 mg/l
Copper (Cu)	: 500 mg/l
Zinc (Zn)	: 400 mg/l
Manganese (Mn)	: 300 mg/l
Chromium (Cr)	: 200 mg/l
Silver (Ag)	: 200 mg/l
Beryllium (Be)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13662.0100	100 ml	PE
CL01.13662.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. CAL-03 (7E) — CL01.13643

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 7 elements in 5% HNO3 (CAL-03)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Aluminium (Al)	: 2000 mg/l
Barium (Ba)	: 2000 mg/l
Beryllium (Be)	: 50 mg/l
Cobalt (Co)	: 500 mg/l
Copper (Cu)	: 250 mg/l
Iron (Fe)	: 1000 mg/l
Vanadium (V)	: 500 mg/l

Art. Nr.	Pack	Pack Type
CL01.13643.0100	100 ml	PE
CL01.13643.0500	500 ml	PE/H

Multi Element ICP INT Standard sol. INT-A2 (6E) — CL01.13683

*ICP-EPA-CLP Methods (DIN 38406) - Interference Check Standard (INT) - Alternate Interferents Contains 6 element in 5% HNO3 (INT-A2) - (CLP-PIN-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Chromium (Cr)	: 1000 mg/l
Copper (Cu)	: 1000 mg/l
Manganese (Mn)	: 1000 mg/l
Nickel (Ni)	: 1000 mg/l
Titanium (Ti)	: 1000 mg/l
Vanadium (V)	: 1000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13683.0100	100 ml	PE
CL01.13683.0500	500 ml	PE/H

Multi Element ICP Spike Standard sol. Spike-2C (5E) — CL01.13674

ICP-EPA-CLP Methods (DIN 38406) - Spiking standard for ICP and AA Contains 5 element in 5% HNO3 (Spike-2C)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 2000 mg/l
Selenium (Se)	: 2000 mg/l
Thallium (Tl)	: 2000 mg/l
Lead (Pb)	: 500 mg/l
Cadmium (Cd)	: 50 mg/l

Art. Nr.	Pack	Pack Type
CL01.13674.0100	100 ml	PE
CL01.13674.0500	500 ml	PE/H

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DIN 38406
German standard methods for the examination of water, waste water and sludge - Cations

Multi Element ICP CAL Standard sol. CAL-04 (5E) — CL01.13644

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 5 elements in 5% HNO3 (CAL-04)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 100 mg/l
Cadmium (Cd)	: 50 mg/l
Lead (Pb)	: 50 mg/l
Selenium (Se)	: 50 mg/l
Thallium (Tl)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13644.0100	100 ml	PE
CL01.13644.0500	500 ml	PE/H

Multi Element CAL Standard sol. CAL-08A (5E) — CL01.13649

ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 5 elements in 5% HNO3 (CAL-08A)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 1000 mg/l
Lead (Pb)	: 1000 mg/l
Selenium (Se)	: 1000 mg/l
Thallium (Tl)	: 1000 mg/l
Cadmium (Cd)	: 500 mg/l

Art. Nr.	Pack	Pack Type
CL01.13649.0100	100 ml	PE
CL01.13649.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. CAL-02 (5E) — CL01.13642

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 5 elements in 5% HNO3 (CAL-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Chromium (Cr)	: 100 mg/l
Manganese (Mn)	: 150 mg/l
Nickel (Ni)	: 400 mg/l
Silver (Ag)	: 100 mg/l
Zinc (Zn)	: 200 mg/l

Art. Nr.	Pack	Pack Type
CL01.13642.0100	100 ml	PE
CL01.13642.0500	500 ml	PE/H

Multi Element ICP ICV Standard sol. CCV-02 (5E) — CL01.13657

*ICP-EPA-CLP Methods (DIN 38406) - Continuing Calibration Verification Standard (CCV) Contains 5 elements in 5% HNO3 (CCV-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Readily Carbonizable Substances	: 50 mg/l
Lead (Pb)	: 25 mg/l
Selenium (Se)	: 25 mg/l
Thallium (Tl)	: 50 mg/l
Cadmium (Cd)	: 25 mg/l

Art. Nr.	Pack	Pack Type
CL01.13657.0100	100 ml	PE
CL01.13657.0500	500 ml	PE/H

DIN 38406
German standard methods for the examination of water, waste water and sludge - Cations

Multi Element ICP ICV Standard sol. CCV-03 (5E) — CL01.13654

ICP-EPA-CLP Methods (DIN 38406) - Continuing Calibration Verification Standard (CCV) Contains 5 elements in 5% HNO3 (CCV-03)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Arsenic (As)	: 500 mg/l
Lead (Pb)	: 500 mg/l
Selenium (Se)	: 500 mg/l
Thallium (Tl)	: 500 mg/l
Cadmium (Cd)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13654.0100	100 ml	PE
CL01.13654.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. CAL-01 (4E) — CL01.13641

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 4 elements in 5% HNO3 (CAL-01)

Density 1.10 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Calcium (Ca)	: 5000 mg/l
Magnesium (Mg)	: 5000 mg/l
Potassium (K)	: 5000 mg/l
Sodium (Na)	: 5000 mg/l

Art. Nr.	Pack	Pack Type
CL01.13641.0100	100 ml	PE
CL01.13641.0500	500 ml	PE/H

Multi Element ICP CAL Standard sol. CAL-07 (3E) — CL01.13647

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 3 elements in 5% HNO3 + traces HF (CAL-07)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Boron (B)	: 500 mg/l
Molybdenum (Mo)	: 500 mg/l
Silicon (Si)	: 500 mg/l

Art. Nr.	Pack	Pack Type
CL01.13647.0100	100 ml	PE
CL01.13647.0500	500 ml	PE/H

Mono Element ICP Spike Standard sol. Spike-2B (1E) — CL01.13673

*ICP-EPA-CLP Methods (DIN 38406) - Spiking standard for ICP and AA Contains 1 element in 2% HNO3 (Spike-2B)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	500mg/L

Art. Nr.	Pack	Pack Type
CL01.13673.0100	100 ml	PE
CL01.13673.0500	500 ml	PE/H

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DIN 38406
German standard methods for the examination of water, waste water and sludge - Cations

Mono Element ICP CAL Standard sol. CAL-06 (1E) CL01.13646

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 1 elements in 5% HNO3 (CAL-06)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Mercury (Hg)	: 100 mg/l

Art. Nr.	Pack	Pack Type
CL01.13646.0100	100 ml	PE
CL01.13646.0500	500 ml	PE/H

Mono Element ICP ICV Standard sol. CCV-02 (1E) CL01.13653

*ICP-EPA-CLP Methods (DIN 38406) - Continuing Calibration Verification Standard (CCV) Contains 1 elements in 2% HNO3 (CCV-02)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Sb 1000mg/l
± 0.3%

Art. Nr.	Pack	Pack Type
CL01.13653.0100	100 ml	PE
CL01.13653.0500	500 ml	PE/H

Mono Element ICP ICV Standard sol. CCV-03 (1E) CL01.13658

*ICP-EPA-CLP Methods (DIN 38406) - Continuing Calibration Verification Standard (CCV) Contains 1 elements in 2% HNO3 (CCV-03)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 300 mg/l

Art. Nr.	Pack	Pack Type
CL01.13658.0100	100 ml	PE
CL01.13658.0500	500 ml	PE/H

Mono Element ICP CAL Standard sol. CAL-05 (1E) CL01.13645

*ICP-EPA-CLP Methods (DIN 38406) - Instrument Calibration Standard (CAL) Contains 1 elements in 2% HNO3 (CAL-05)

Density 1.02 g/ml
HS Nr 38220000
UN 3264
ADR 8,III
IATA 8,III
IMDG 8,III
HNrs H315
PNrs P280-P305 + P351 + P338
WARNING.

Antimony (Sb)	: 600 mg/l

Art. Nr.	Pack	Pack Type
CL01.13645.0100	100 ml	PE
CL01.13645.0500	500 ml	PE/H