

## SERVA Gels for 2D Western Blotting

The newly developed 2D HPE™ Double Blot-Gel combines high-resolution 2D gel electrophoresis with the Western Blotting detection method. The gel is not covalently bound to the (non-fluorescent) carrier foil as usual.

### Special Application: HCP Analysis by 2D Western Blotting

One application of 2D Western blotting is host cell protein (HCP) analysis in the biotechnological production of antibodies or other recombinant proteins. Here, high-resolution horizontal 2D HPE™ gel electrophore-

After electrophoresis, the carrier foil, which interferes with the downstream process, can be removed from the gel easily and allows direct and efficient transfer of separated proteins by semi-dry blotting.

sis can show all its advantages, especially the high resolution in protein separation and the efficient semi-dry transfer of protein spots from the gel onto the membrane.

A. Sample prep, desalting and pre-labelling



B. 1<sup>st</sup> dimension on SERVA IPG BlueStrip, 2<sup>nd</sup> dimension on 2D HPE™ Double BlotGel NF



C. In-Gel-Fluorescence Detection



D. Carrier foil removal & Semi-Dry Blotting



E. On-Membrane Fluorescence Detection



F. Blocking and AB Probing



G. Chemiluminescence Detection



H. Imaging and Analysis



For more details please refer to the SERVA brochure "HCP Analysis and Beyond"

The gel sizes and slot designs of the 2D HPE™ BlotGels are identical with those of the corresponding 2D HPE™ Gels. They also

come in a kit of 4 plastic-backed gels with running and equilibration buffers, wicks as well as cooling contact fluid.

Product	Size	Cat. No.
2D HPE™ Triple BlotGel NF 12.5 % Kit	1 kit	43429.01
2D HPE™ Double BlotGel NF 12.5 % Kit	1 kit	43430.01
2D HPE™ Large BlotGel NF 12.5 % Kit	1 kit	43432.01

NF=non-fluorescent film backing