

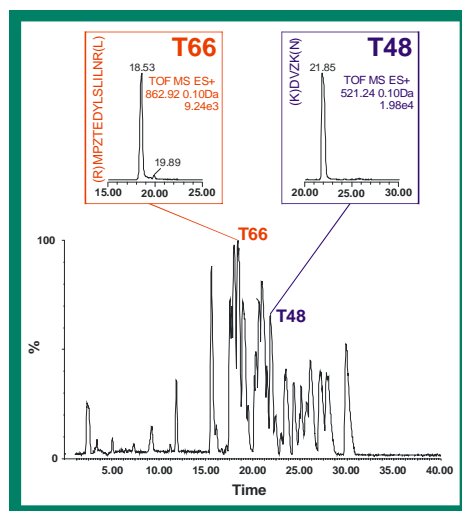
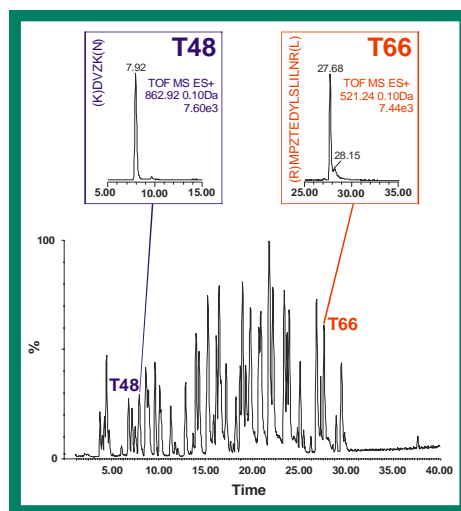
2D Proteomics HPLC Kit

ORTHOGONAL SEPARATION COLUMNS WITH TRYPTIC DIGEST STANDARDS

- ◆ Complementary reversed phase and hydrophilic interaction chromatography columns
- ◆ High purity reduced and alkylated proteins digested with TPCK-treated Trypsin
- ◆ Complete with CD containing full chromatographic documentation of all digests

A Complete Kit for 2D Characterisation of Your Protein Digests

The SeQuant 2D Proteomics HPLC Kit includes two top quality HPLC separation columns with complementary selectivity, six vials with three different high purity tryptic digest standards and a CD containing full chromatographic documentation of the standards. Fitted to your LC/MS instrumentation, this kit allows you to validate the system for peptide mapping and then determine the sequence of your custom prepared protein digests. The two complementary HPLC columns based on the techniques of reversed phase (RPLC) and hydrophilic interaction (HILIC) chromatography, together allow a much higher sequence coverage compared to traditional single dimensional RPLC approaches. Scientific studies have shown that HILIC combined with RPLC can be considered as the most orthogonal combination of separation techniques providing the highest coverage of a 2D separation space.



Example of chromatographic data (TIC) on the accompanying CD showing peptide mapping of the BSA tryptic digest standard using RPLC (left) and HILIC (right). Inserts show the ion chromatograms (SIM) of the two peptides T48 and T66, and highlights the large difference in elution pattern on the two different columns, which forms the basis of orthogonality.

Ordering Information

P/N	Description
9240-150	2D Proteomics HPLC Kit <i>includes ZIC®-HILIC and Kromasil® columns (150 x 0.3 mm), tryptic digest standards (500 pmol) of Cytochrome C (Equine heart), Ovalbumin (Chicken egg white), Albumin (Bovine serum), CD</i>
9240-921	Replacement standards (Cytochrome C, Ovalbumin and , Bovine serum albumin), 6-pack
2912-150	ZIC®-HILIC hydrophilic interaction liquid chromatography column, 150 x 0.3 mm, 5 µm, 200 Å
3912-150	Kromasil® C18 reversed phase column, 150 x 0.3 mm, 5 µm, 100 Å
9220-901	Tryptic digest of Cytochrome C (Equine heart), 12 kDa, 500 pmol, 6-pack
9220-907	Tryptic digest of Ovalbumin (Chicken egg white), 45 kDa, 500 pmol, 6-pack
9220-909	Tryptic digest of Bovine serum albumin (Bovine serum), 68 kDa, 500 pmol, 6-pack

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