

PRODUCT DATA SHEET

Pierce HeLa Protein Digest Standard, 20µg

Product Number: 88328

Lot Number: 3212657

Summary:

The Thermo Scientific™ Pierce™ HeLa Protein Digest Standard is a lyophilized, tryptic peptide mixture for LC/MS qualitative performance testing. The digest is specifically formulated for LC/MS experiments and does not contain salts or detergents.

Applications:

Qualitative LC
LC/MS standardization
LC/MS MS method development
TMT™ reagent method development

Storage:

Shipped on cold packs. Store at -20°C or below.

Stability:

Lyophilized product is stable for > 2 years at -20°C or below. Reconstituted product is stable for up to 3 weeks at 4°C. For long term stability of reconstituted product, aliquot and freeze at -80°C.

Material Preparation:

Reconstitute product by dissolving in 40µL of 0.1% formic acid in LC/MS-grade water to a final concentration of 0.5µg/µL.

Addition of 5% acetonitrile to reconstitution buffer may facilitate dissolving of peptides but is not required.

Source:

HeLa S3 cells

Visual:

White powder

Formulation:

20µg of lyophilized peptide mixture

Related Thermo Scientific Products:

88329 Pierce HeLa Protein Digest Standard, 5 × 20µg

88321 Pierce Peptide Retention Time Calibration Mixture, 200µL

84840 Mass Spec Sample Prep Kit for Cultured Cells, 20-reaction kit

Additional Information:

For MSDS please visit:

www.thermoscientific.com/pierce

Technical Support:

For Hardware-related support call:

1-800-532-4752

For Reagent support call:

1-800-874-3723

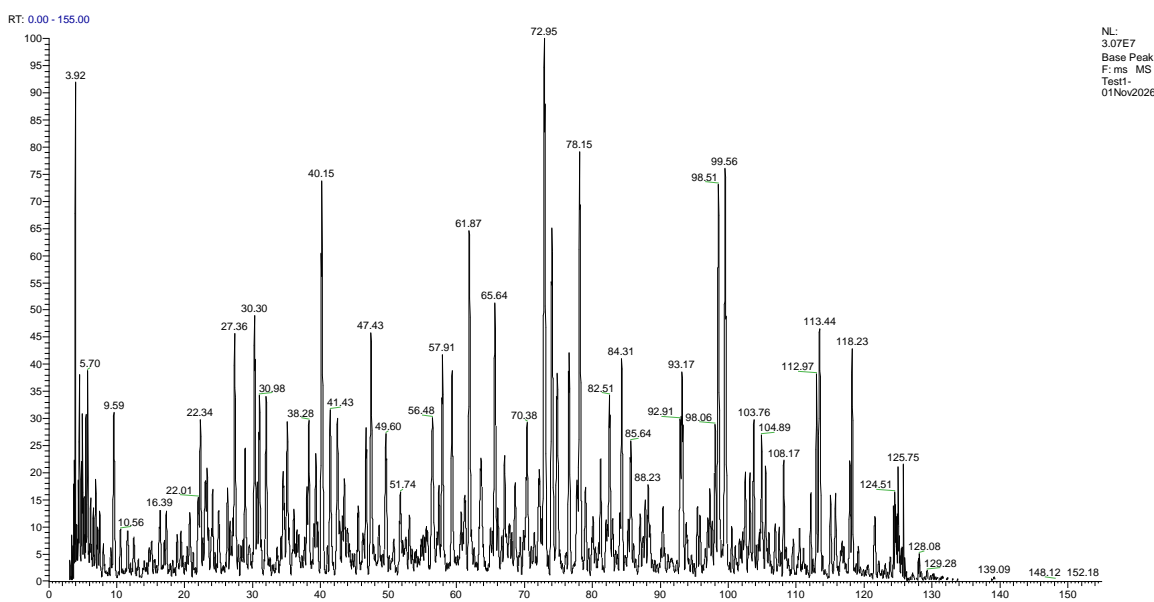
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Analysis	Specification	Results
UV Absorbance	A280 = 1.0 +/- 0.1	Pass
LC-MS Chromatogram	LC-MS chromatogram conforms to reference	Pass
Reference Peptide Area	Ratio of peptide area to reference = 0.75-1.25	Pass
*Peptide Missed Cleavage	Tryptic peptide missed cleavage ≤ 10%	Pass
*Peptide Alkylation	Cysteine carbamidomethyl modification ≥ 98%	Pass
*Peptide Oxidation	Methionine oxidation ≤ 10%	Pass
*Other Peptide Modification	Carbamylation < 10%	Pass

* Peptide missed cleavage, alkylation, oxidation, and modification determined by Preview™ Software (Protein Metrics) using a human protein Swiss-Prot database.



Base peak chromatogram of 200ng Pierce HeLa Protein Digest Standard separated using a Thermo Scientific™ PepMap™100 3μm x 75μm x 15cm column (Product No. ES900) with a 2-25% gradient (A:0.1% FA in water, B: 0.1% FA in 100% acetonitrile) at 300nL/min for 155 minutes and detected on a Thermo Scientific™ Orbitrap™ Eclipse Mass Spectrometer.

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 Timothy Morton, Sr. Quality Chemist, Mass Spectrometry

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