

PRODUCT DATA SHEET**Pierce™ BSA Protein Digest Standard, LC/MS Grade****Product Number:** 88341**Lot Number:** 3214522**Summary**

The Thermo Scientific Pierce BSA Protein Digest Standard is a lyophilized, tryptic peptide mixture for LC/MS quality control. The digest is fully reduced, alkylated with iodoacetamide and free of intact protein.

Applications:

Qualitative LC
LC column conditioning
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 yrs 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 2mL of 0.1% formic acid in LC/MS grade water to a final concentration of 0.5pmol/μL.

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

Source:

Bovine Serum Albumin (Uniprot: P02769)

Visual:

White powder

Formulation:

1 nmol of lyophilized tryptic peptides

Related Thermo Scientific Products

88342 Pierce 6 Protein Digest Standard, equimolar, LC/MS grade, 100pmol

88328 Pierce HeLa Protein Digest Standard, 20μg

88329 Pierce HeLa Protein Digest Standard, 5 x 20μg

88321 Pierce Peptide Retention Time Calibration Mixture, 200μL

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

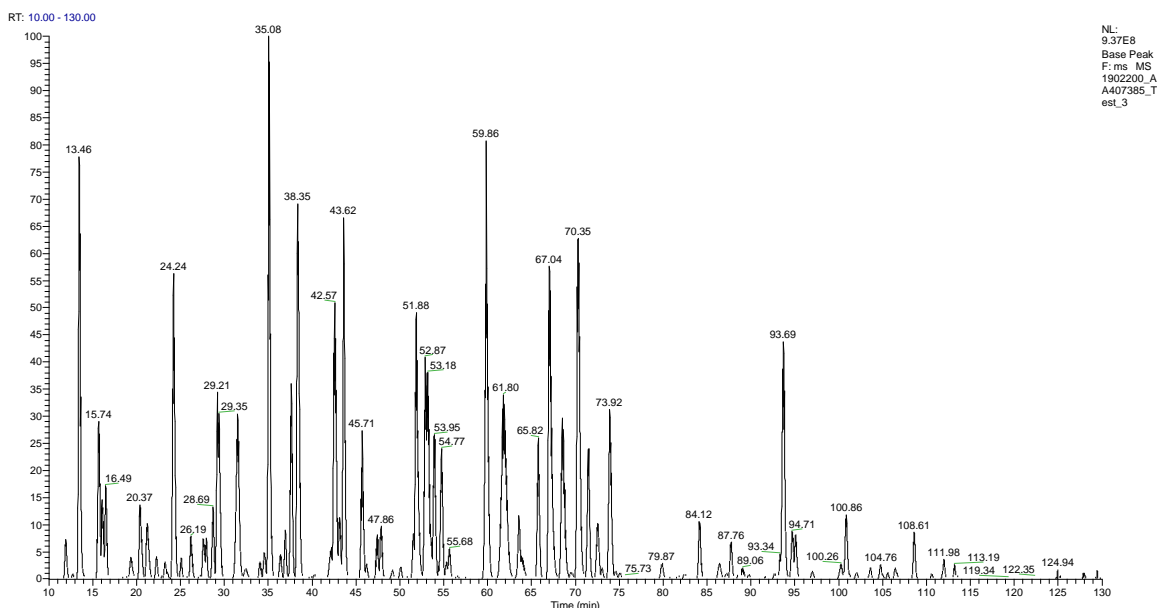
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Analysis	Specification	Results
LC-MS Chromatogram	Conforms to reference	Pass
Reference Peptide Area	Ratio of peptide area to reference = 0.75 - 1.25	Pass
*Peptide Missed Cleavage	Trypsin peptide missed cleavage $\leq 30\%$	Pass
*Peptide Alkylation	Cysteine carbamidomethyl modification $\geq 90\%$	Pass
*Other Peptide Modification:	Carbamylation $\leq 10\%$	Pass

* Peptide missed cleavage determined by Proteome Discoverer and alkylation determined by Preview Software (Protein Metrics) using a species-specific Swissprot database.



Base peak chromatogram of 40 ug BSA Digest separated using a Thermo Scientific™ Acclaim PepMap™ RSLC, C18, 3 μm, 100Å, 75μm x 15cm column (P/N ES900) with 2-25% gradient (A: 0.1% FA in water, B: 0.1% FA in 100% acetonitrile) at 300 nL/min and detected on a Thermo Scientific™ Orbitrap™ Eclipse Mass Spectrometer.

Date: 04/Jun/2025
 Mike Stanaitis, Lead Quality Chemist

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