

## PEPTIDE TESTING SPECIFICATION SHEET

Specification sheet for peptide identity, purity, content, and safety assays performed under accredited methods at Verified Sciences.

### 1. PEPTIDE ASSAYS & TARGET THRESHOLDS

ASSAY PARAMETER	METHODOLOGY / COLUMN SPECS	STANDARD ACCEPTANCE SPECIFICATION
Peptide Purity	RP-HPLC using C18 column matrix (300Å pore, 3.5µm particle). Ion-pairing modulated via 0.1% Trifluoroacetic Acid (TFA).	≥ 98.0% Chromatographic Area Purity
Peptide Identity	LC-MS with ESI-TOF; observed mass matched to theoretical monoisotopic mass.	± 0.5 Da of Theoretical
Net Peptide Content	Gravimetric weight verification coupled with spectrophotometric baseline factor checking.	Report Absolute Content Mass (mg)
Bacterial Endotoxins	LAL Kinetic Chromogenic Assay; photometric evaluation against USP endotoxin reference standards.	< 5.00 EU/mg
Residual TFA / Acetate	Ion Chromatography with suppressed conductivity detection.	Report % w/w
Water Content	Karl Fischer Coulometric Titration.	< 8.0% w/w (typical)

### 2. STANDARD TURNAROUND

- Identity + Purity panel: 3 business days from sample acceptance.
- Full release panel (identity, purity, content, endotoxin, water): 7 business days.
- Rush service available with confirmed scheduling; contact client services.