

CERTIFICATE OF ANALYSIS

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Product Identification			
Product Name	BPC-157 Analytical Standard		
Catalog No. (SKU)	BC10		
Lot / Batch No.	ZBV-BC10-20260301		
Quantity per Vial	10 mg		
Manufacture Date	2026-03-01		
Analysis Date	2026-03-04		
Expiration Date	2028-03-04		
Physical Appearance	White to off-white lyophilized powder		
Material Form	Lyophilized solid		
Molecular Characterization			
Chemical Name / Synonyms	BPC-157; Body Protection Compound-157		
Molecular Formula	C62H98N16O22		
Molecular Weight (Calc.)	~1419 Da		
Primary Structure	GEPPPGKPADDAGLV (15-mer peptide; sequence confirmed by MS/MS)		
CAS Registry No.	137525-51-0		
Summary of Analytical Results			
Analytical Test	Specification	Result	Method Reference
HPLC Purity (area %)	>= 98.0%	99.0%	In-house HPLC / USP <621>
Identity Confirmation (MS)	Consistent with reference	Conforms	ESI-MS / LC-MS
Water Content (Karl Fischer)	<= 5.0%	2.94%	USP <921> Method 1c
Acetate / Counter-ion	Report value	8.71%	Ion Chromatography
Appearance	White to off-white powder	Conforms	Visual inspection
Qualified as an in-vitro analytical reference standard only. Not for human, veterinary, diagnostic, or therapeutic use.			
HPLC Purity Assay - Chromatographic Conditions			
Column	C18 reversed-phase, 4.6 x 250 mm, 5 um, 300 A pore size		
Mobile Phase	A: 0.1% TFA/H2O; B: 0.1% TFA/ACN; linear gradient 5-65% B over 45 min		
Flow Rate	1.0 mL/min		
Detection	UV 214 nm with in-line ESI-MS identity check		
Main Peak RT	18.36 min		

Main Peak Area	99.0%
Total Related Substances	1.00%
System Suitability	N >= 2000 plates; tailing factor <= 1.5 (USP <621>)

MASS SPECTROMETRY IDENTITY CONFIRMATION

Ionization Mode	ESI-Positive
Theoretical Mass	1419.55 Da
Observed Mass (M+H)+	1419.58 Da
Mass Delta	+/- 0.06 Da
MS/MS Fragmentation	Major b/y series consistent with assigned structure
Identity Conclusion	Conforms - observed mass within method tolerance

SUPPLEMENTAL QUALITY ATTRIBUTES

Test Parameter	Acceptance Criteria	Result	Technique
Bacterial Endotoxin	<= 0.25 EU/mg	< 0.10 EU/mg (kinetic chromogenic LAL)	USP <85> LAL
Heavy Metals (screen)	<= 10 ppm	< 5 ppm combined (ICP-MS screen)	ICP-MS
Residual Solvents	ICH Q3C compliant	Complies with ICH Q3C (GC headspace)	GC Headspace
Related Substances	Single impurity <= 0.5%	Conforms	HPLC
Peptide Content (UV)	Report value	98.4%	UV 214 nm

STORAGE & HANDLING

Lyophilized / Unopened Solid	Sealed, dry, protected from moisture and light. Store lyophilized solid at -20 deg C (up to 1 year) or -80 deg C (up to 2 years).
After Reconstitution (Analytical Solution)	Aliquot immediately after dissolution. Frozen analytical stock: -20 deg C up to 1 month or -80 deg C up to 6 months (sealed). Working solution: 2-8 deg C up to 1 week. Do not repeat freeze-thaw cycles.
Handling	Equilibrate the sealed vial to ambient temperature before opening to avoid condensation on the solid. Keep desiccated and protected from light. Do not shake. Aliquot solutions so each tube is thawed once.
Stability Note	Sealed lyophilized material: up to 1 year at -20 deg C or 2 years at -80 deg C (MedChemExpress peptide insert). Solution window as listed. Sigma peptide handling allows 2-8 deg C working use up to 1 week.

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