

CERTIFICATE OF ANALYSIS

Document: COA-CND10-2026-R01 | Revision: 01 | Issue Date: 2026-05-04

PRODUCT IDENTIFICATION

Product Name	CJC-1295 (No DAC) Analytical Standard
Catalog No. (SKU)	CND10
Lot / Batch No.	ZBV-CND10-20260501
Quantity per Vial	10 mg
Manufacture Date	2026-05-01
Analysis Date	2026-05-04
Expiration Date	2028-05-04
Physical Appearance	White to off-white lyophilized powder
Material Form	Lyophilized solid

MOLECULAR CHARACTERIZATION

Chemical Name / Synonyms	CJC-1295 without DAC; GHRH analogue
Molecular Formula	C152H252N44O42
Molecular Weight (Calc.)	~3367 Da
Primary Structure	Modified GHRH(1-29) with D-Ala, Gln, Ala, and Leu substitutions at positions 2, 8, 15, and 27.
CAS Registry No.	863288-34-0

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%	1.88%	USP <921> Method 1c
Acetate / Counter-ion	Report value	5.80%	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	11.48 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	3367.9 Da
Observed Mass (M+H)+	3367.85 Da
Mass Delta	+/- 0.03 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	98.6%	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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