

**Pentadeca Arginate (PDA)**

CAS NUMBER

137525-51-0

MOLECULAR FORMULA

C62H98N16O22

MOLECULAR WEIGHT

1419.5 g/mol (free peptide)

SALT FORM

Arginate (arginine counter-ion)

SEQUENCE

Gly-Glu-Pro-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val

LOT NUMBER

PDA-2609A

DATE OF ANALYSIS

September 22, 2026

RETEST DATE

September 21, 2028

ANALYTICAL LABORATORY

Third-party HPLC/MS**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Appearance	Visual	White to off-white lyophilized powder	Conforms
Identity (molecular mass)	ESI-MS	1419.5 g/mol (free peptide) +/- 1.0 Da	1419.4 Da
Purity	RP-HPLC, UV 214 nm	NLT 98.0%	99.00%
Single largest impurity	RP-HPLC, UV 214 nm	NMT 1.0%	0.33%
Water content	Karl Fischer titration	NMT 8.0%	5.3%
Arginine content	RP-HPLC, derivatized	Conforms to arginate stoichiometry	13.1%
Peptide content	Nitrogen determination	NLT 80.0%	91.3%
Residual solvents	GC headspace, ICH Q3C	Meets ICH limits	Conforms
Bacterial endotoxins	LAL, USP <85>	< 1.0 EU/mg	Conforms

CONFORMS — lot PDA-2609A meets all specifications listed above.**CHROMATOGRAPHIC CONDITIONS**

Column: C18 reversed phase, 4.6 × 250 mm, 5 µm, 100 Å
Mobile phase A: 0.1% TFA in water · B: 0.1% TFA in acetonitrile
Gradient: 5-65% B over 30 min · Flow: 1.0 mL/min · 25 °C
Detection: UV 214 nm · Injection volume: 20 µL
Mass spectrometry: ESI, positive ion mode

STORAGE & HANDLING

Lyophilized: -20°C, protected from light and moisture.
2-8°C acceptable short term. Equilibrate to room temperature before opening.

RELEASED BY

Quality Control, Ascendentials LLC

DATE OF ISSUE

September 22, 2026**FOR LABORATORY RESEARCH USE ONLY — NOT FOR HUMAN OR VETERINARY USE.**

This certificate applies only to the lot identified above. Not for use in food, drugs, medical devices, or cosmetics.

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