



AEGIS PEPTIDE ANALYTICS

Certificate of Analysis
Independent Third-Party Testing Laboratory



CERTIFICATE NO.
APA-2026-000047

✓ **OVERALL PASS**

SAMPLE INFORMATION

COMPOUND:	Dihexa 20mg	LOT NUMBER:	BBL-260608-05
CAS NUMBER:	1401708-83-5	TEST DATE:	June 4, 2026
ISSUE DATE:	June 7, 2026	EXPIRY DATE:	June 7, 2028
CLIENT:	Blackwell BioSciences	TESTING METHODS:	HPLC-UV · LC-MS/MS · ICP-MS · GC-FID · Karl Fischer

TEST RESULTS

01 Purity Analysis — HPLC-UV

USP <621> · Reverse-Phase C18 · UV 220 nm

PURITY RESULT

98.8%

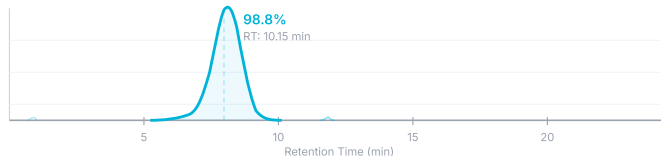
SPECIFICATION

≥98.0%

RESULT

✓ **PASS**

CHROMATOGRAM (ILLUSTRATIVE — REVERSE PHASE C18, 220 NM)



DETECTION λ
220 nm

RETENTION TIME
10.15 min

PEAK AREA
—

COLUMN
C18 150×4.6mm 5 μ m

02 Identity Confirmation — LC-MS/MS

ESI positive mode · Triple Quadrupole · USP <621>

MOLECULAR FORMULA

C₂₄H₄₀N₄O₆

✓ **CONFIRMED**

EXPECTED MW
496.57 Da

OBSERVED [M+H]⁺
[M+H]⁺ 497.30

MASS ERROR
1.5

03 Heavy Metals Screening — ICP-MS

ICP-MS, USP <232>/<233>

ELEMENT	SYMBOL	RESULT (PPB)	LIMIT (PPB)	STATUS
Lead	Pb	<0.5	500	✓ PASS
Arsenic	As	<0.5	1,500	✓ PASS
Cadmium	Cd	<0.2	500	✓ PASS
Mercury	Hg	<0.1	300	✓ PASS


04 Residual Solvents — GC-FID

GC-FID Headspace, ICH Q3C

SOLVENT	ICH CLASS	RESULT (PPM)	LIMIT (PPM)	STATUS
Acetonitrile	Class II	<10	410	✓ PASS
Methanol	Class II	<10	3,000	✓ PASS
Ethyl Acetate	Class III	<10	5,000	✓ PASS

05 Water Content — Karl Fischer Titration

Karl Fischer Titration, USP <921>

WATER CONTENT 2.9%	SPECIFICATION ≤ 5.0%	RESULT ✓ PASS
Content vs. Limit (2.9% / 5.0%) 		

METHODOLOGY & QUALITY REFERENCES

All analytical procedures are performed in compliance with the current United States Pharmacopeia (USP), International Council for Harmonisation (ICH) guidelines, and applicable FDA Analytical Procedures guidance documents. Reference standards are NIST-traceable or USP-grade. Instruments are calibrated per manufacturer protocols and internal SOPs with documented calibration records. All results are issued as final and cannot be retroactively altered after certificate issuance.

USP <61>/<62>

USP <71>

USP <85>

USP <232>/<233>

USP <621>

USP <731>

USP <788>

ICH Q3C

ICH Q2(R2)

CHAIN OF CUSTODY

Sample Received

—

Analysis Start

June 4, 2026

Analysis Complete

June 4, 2026

Certificate Issued

June 7, 2026

Authorized Laboratory Signatory

Lab Director / Quality Manager

Date of Release

June 7, 2026

This certificate is issued by Aegis Peptide Analytics LLC. Results are specific to the sample tested and may not be representative of other lots or batches. This COA is for research purposes only and is not intended for use in diagnostic or therapeutic decisions.

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