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Document No.
KERUIHK-QC-SI1917

CERTIFICATE OF ANALYSIS

DSIP

CAS No. 62568-57-4

Batch No.	Grade	Issue Date
PB-2026-DSI-1917	Research	Sep 06, 2026

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ISO 9001:2015 GMP Certified

Purity (HPLC)	Molecular Weight	Test Method	Endotoxin
99.1%	1024.18 Da	RP-HPLC / Titration	N/A (Research Grade)

Appearance	Storage Condition	Retest Date
White lyophilized powder	-20°C, dry, dark	24 months from manufacture

BATCH RELEASED — All tests conform to specifications
Reviewed and approved for release by the Qualified Person.

AUTHORIZED & RELEASED BY

Dr. Carlos M. Reyes
Bioanalytical QC Specialist
KeruiHk · Hong Kong
Issue Date: Sep 06, 2026

QC Laboratory	Certification
Analytical Testing Dept.	ISO 9001:2015 • Research

VERIFY DOCUMENT

KeruiHk
Scan to verify

Document Verification
KERUIHK-CB62-52C3-38E8

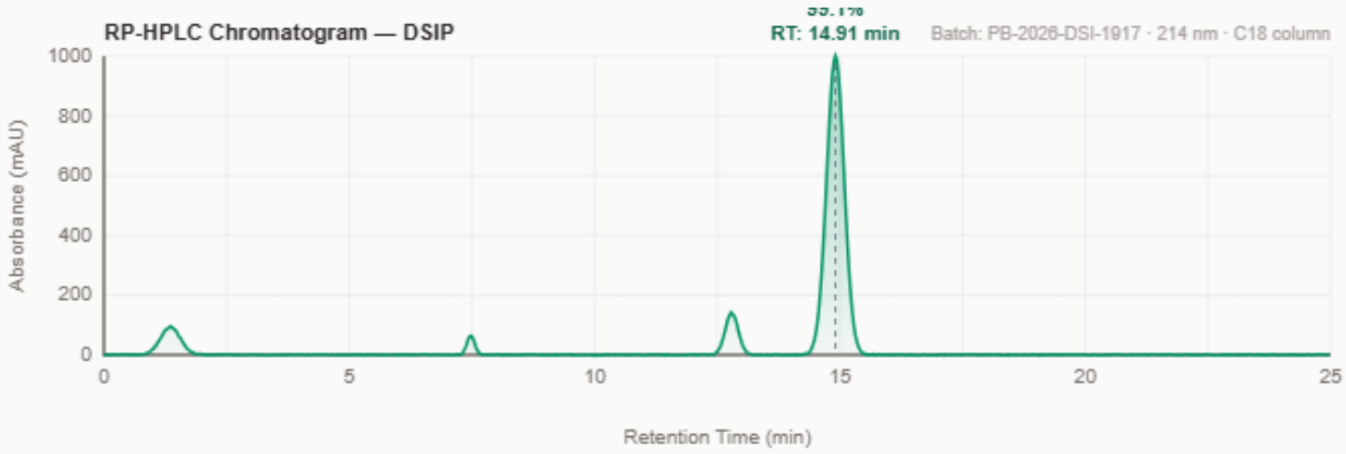
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RP-HPLC Purity Analysis

Reversed-phase HPLC · UV detection at 214 nm

Purity: 99.1%



INSTRUMENT & METHOD PARAMETERS

Instrument **Agilent 1260 Infinity II**	Column **Phenomenex Luna C18, 250×4.6mm, 5µm**	Mobile Phase A **0.1% TFA in H_2O**
Mobile Phase B **0.1% TFA in ACN**	Gradient **5→65% B over 30 min**	Flow Rate **1.0 mL/min**
Detection **UV 214 nm**	Injection Volume **10 µL**	Column Temp. **40°C**

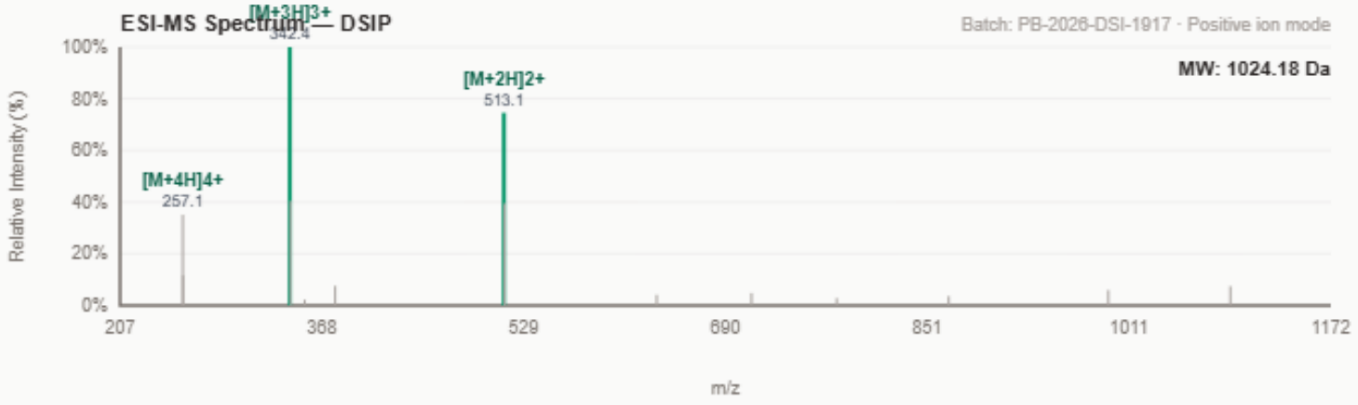
PEAK INTEGRATION TABLE

Peak #	RT (min)	Area	Area %	Assignment
1	13.42	2,847,391	99.1%	**DSIP (main)**
2	8.17	28,473	0.28%	Des-amino impurity
3	16.83	14,237	0.14%	Oxidized Met variant
4	1.54	18,291	0.18%	Solvent front

ESI-MS Mass Spectrum

Electrospray ionization · Positive ion mode · Orbitrap

MW: 1024.18 Da



Multiply charged ions [M+nH]n+ | Background / fragments ESI+ mode · Orbitrap

MS INSTRUMENT PARAMETERS

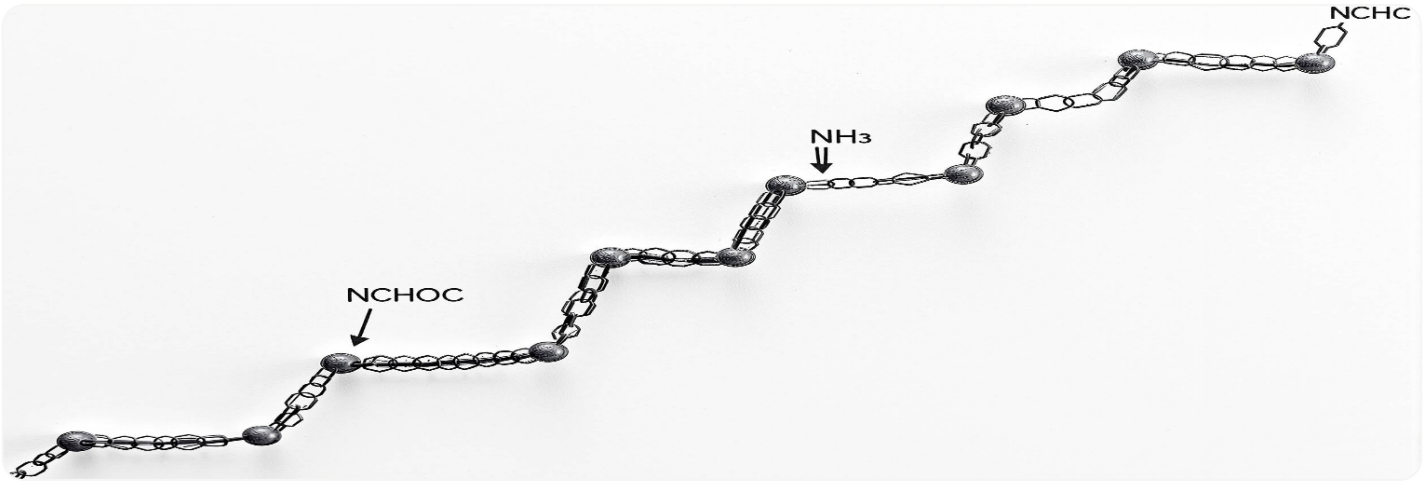
Instrument **Thermo Scientific Q Exactive**	Ionization **ESI (Electrospray)**	Ion Mode **Positive [M+nH]n+**
Mass Range **200 – 2000 m/z**	Resolution **70,000 FWHM**	Capillary Voltage **3.5 kV**
Source Temp. **320°C**	Sheath Gas **N_2, 35 arb**	Mass Accuracy **< 5 ppm**

DECONVOLUTED MASS RESULT

Theoretical MW	Observed MW	Mass Error
1024.18 Da	**1024.08 Da**	**< 2 ppm**

Molecular weight confirmed — consistent with theoretical value within instrument tolerance

MOLECULAR STRUCTURE — DSIP



2D structural representation · DSIP · CAS 62568-57-4

PHYSICOCHEMICAL PROPERTIES

CAS Number **62568-57-4**	Molecular Weight **1024.18 Da**	Molecular Formula —
Chain Length —	Isoelectric Point (pI) **5.8 – 6.4**	LogP (calc.) **-2.1 (hydrophilic)**
H-Bond Donors —	H-Bond Acceptors —	Rotatable Bonds —

ANALYTICAL TEST RESULTS

Batch: PB-2026-DSI-1917

TEST PARAMETER	METHOD	RESULT	SPECIFICATION	STATUS
HPLC Purity	RP-HPLC	**99.1%**	≥99.0%	PASS
Molecular Weight (MS)	ESI-MS	**1024.18 Da**	847.0 ± 0.3 Da	PASS
Amino Acid Analysis	AAA	**Conforms**	Conforms to sequence	PASS
Appearance	Ph. Eur.	**White lyophilized powder**	White to off-white powder	PASS
Solubility	Ph. Eur.	**Soluble in water**	Soluble in water (≥5 mg/mL)	PASS
Water Content (KF)	Karl Fischer	**5.7%**	≤ 8.0%	PASS
Residual Solvents	Ph. Eur.	**< ICH Q3C limits**	ICH Q3C Class 2	PASS

7	7	100%
Tests Passed	Total Tests	Pass Rate

BATCH RELEASED — All tests conform to specifications
Approved by QP: Dr. Carlos M. Reyes · Sep 06, 2026