



CERTIFICATE NO.	LAB SAMPLE ID	ISSUE DATE	REPORT STATUS
COA-2026-0138	20260800259	31 AUG 2026	FINAL

01 CLIENT & PRODUCT INFORMATION

Client organization	Purity Peptides	Client contact	support@puritypeptides.is
Product name	MOTS-c	Client lot / batch	MTC0820261149
Label claim	20mg	Lab sample ID	20260800259 (A, B, C)
Sample matrix	Lyophilized	Quantity received	3
Container / closure	Vial w/Crimp	Condition on receipt	Intact
Date received	25 Aug 2026	Testing period	28 Aug 2026
Storage condition	Ambient	Route / intended use	RUO

02 ANALYTICAL TEST RESULTS | Purity, identification and net content

Analysis	Method / SOP	Instrumentation	Result	Units	Acceptance criterion	Status
Purity (Average purity calculated from 3 vials)	UPLC-UV	Acquity UPLC/PDA	99.79 AVG	% area	>99%	PASS
Identification	UPLC-MS	Waters Quattro Series	Conforms	—	Ionization profile match w/standard across all vials tested	PASS
Net content	Quantitative UPLC	Acquity UPLC/PDA	Vial 1 – 21.09 Vial 2 – 20.22 Vial 3– 20.83	mg/vial	±10%	PASS

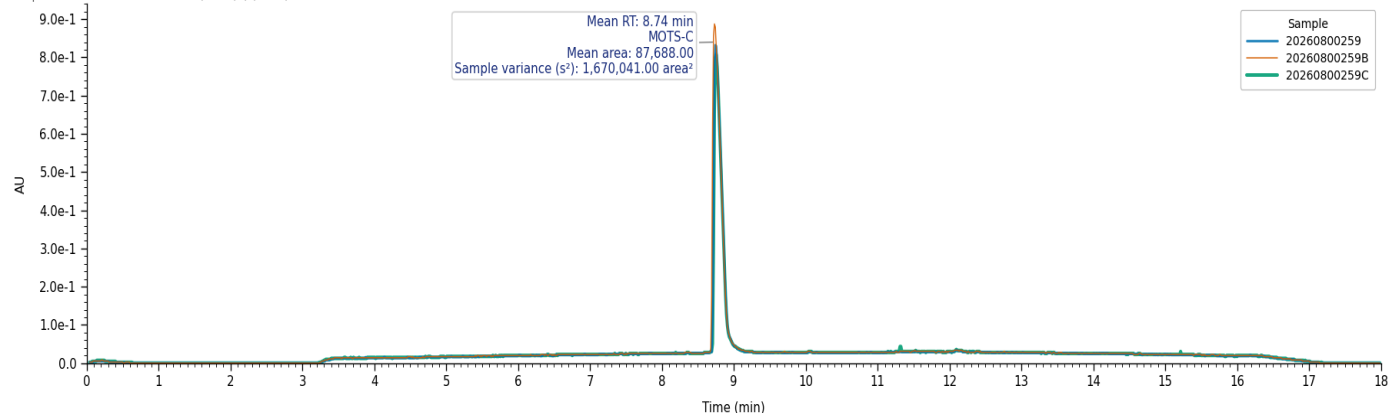
03 SUPPORTING ANALYTICAL EVIDENCE

MOTS-C 20 mg — OVERLAID UV CHROMATOGRAMS

20260800259 / 20260800259B / 20260800259C • Peak statistics (n=3)

Sample variance calculation: $s^2 = \sum(x_i - \bar{x})^2 / (n - 1)$

PDA Ch1 214 nm @ 4.8 nm

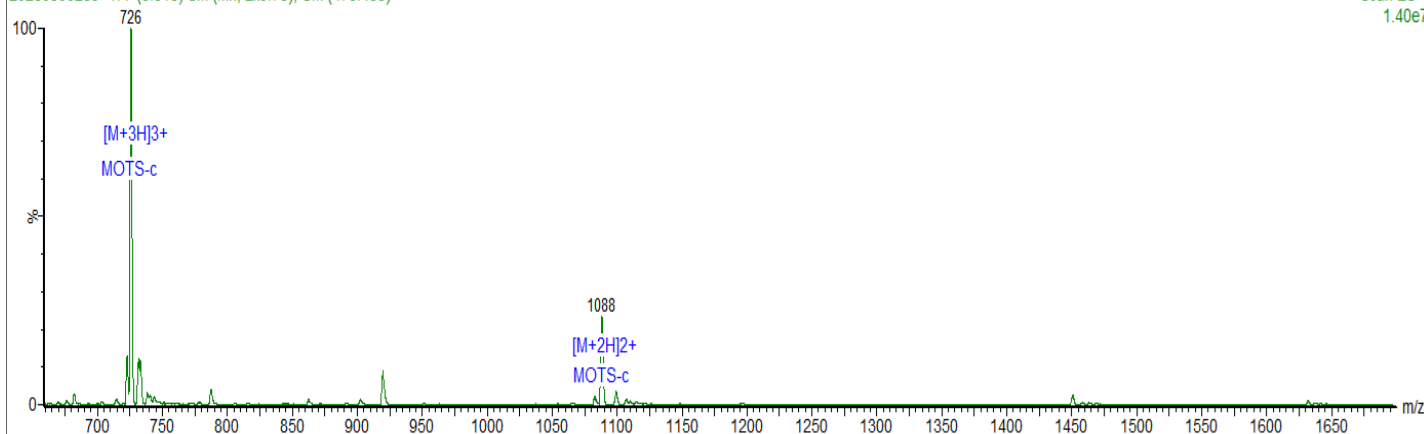


UV CHROMATOGRAM

MOTS-C 20mg

20260800259 477 (8.816) Sm (Mn, 2x0.75); Cm (473:485)

Scan ES+
1.40e7



MASS SPECTRUM / SPECTRA



04 ENDOTOXIN ANALYSIS | Recombinant Factor C (rFC) fluorescence assay

Method	Recombinant Factor-c	Instrument / asset ID	Molecular Devices Gemini XPS
Assay / reagent	bioMerieux EndoZyme II	Standard	Kit-integrated
Sample preparation	Reconstitution in Endotoxin Free Water	Run / plate ID	0828P1-AVQC20260800259
Product limit	0.5 EU/mL (AV Analytics applies 2x USP limit for H2O, no USP endotoxin limit applies to RUO products)	Maximum valid dilution	1:100

Parameter	Result	Acceptance criterion	Units	Status
Endotoxin	Vial 1 0.01 Vial 2 0.09 Vial 3 0.17	<0.5	EU/mL	PASS
Positive product control recovery	119	50-200	%	PASS
Negative control	Non-Detect	<0.005	EU/mL	PASS
Standard curve / assay validity	.98	Correlation factor >0.94	R ²	PASS

05 AUTHORIZATION | Review, decision rule and release

Analyst	Jason Snitker	Technical reviewer	Vanessa Montoya, PhD
Authorized signatory	Vanessa Montoya, PhD	Decision rule	Document complete, fields correct, analysis reviewed
Deviations / qualifiers	None	Amendment history	NA

Report conditions: Results are analytical findings for the item tested and do not constitute an endorsement of product safety, efficacy or regulatory status. Unless otherwise stated, this certificate may be reproduced only in full with written approval from AV Analytics.