

Chem Research LTD

Certificate of Analysis			
Product Name	MOTS-C		
CAS. NO.	1627580-64-6	Batch No.	MT-250920
Molecular Formula	C ₁₀₁ H ₁₅₂ N ₂₈ O ₂₂ S ₂	Molecular Weight	2174.64
Mfg.Date	2025.09.20	Retest Date	2027.09.19
Report Date	2025.09.21	Quantity	124g
Sequence: Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg			
Items		Specification	Result
1	Appearance	White to off white powder	White powder
2	Solubility	Freely soluble in water	Conforms
3	Identity (Mass Spectrometry)	2174.4-2175.4 Da (free base)	2174.7 Da
4	Purity (HPLC)	≥99.0%	99.5%
5	Largest single impurity	≤0.50%	0.12%
6	Total Impurities	≤1.0%	0.32%
7	Water Content (K.F)	≤6.0%	3.1%
8	Acetate Content	8.0-12.0 %	10.4 %
9	Residual Solvents	Acetonitrile ≤ 410ppm	45ppm
10	Bacterial Endotoxins	< 10 EU/mg	Conforms
11	Peptide Content	≥80.0%	84.3%
Storage	Preserve in an air tight container, protected from light at a temperature of -25°C-15°C		
Conclusion	The product tested Conform with In-house standard		
Remark	It is only supplied as chemical product		