

Certification of Analysis

Product Name	MOTS	CAS No.	
Molecular	C101H152N28O22S2	Batch No.	P250208-YS448144
Molecular Weight	2174.59	Manufacturing Date	07.04.2025
Storage	Cool dry place	Retest Date	07.04.2025
Sequence	Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg		
TEST		SPECIFICATION	RESULT
1	Appearance	White powder	White powder
2	Solubility	Soluble in water or acetic acid to give a clear, colorless solution	Conforms
3	Identification (MS)	2174.59 ± 1.0	2173.65
3	Amino Acid Composition	$\pm 10\%$ of theoretical	Conforms
4	Peptide Purity (By HPLC)	$\geq 98.0\%$ by area integration	98.32%
5	Related Substance (By HPLC)	Total Impurities($\leq 2.0\%$) Largest Single Impurity($\leq 2.0\%$)	0.88% 1.68%
6	Acetate Content (By HPLC)	$\leq 15.0\%$	11.6%
7	Water Content (Karl Fischer)	$\leq 8.0\%$	4.3%
8	Bacterial Endotoxins	$\leq 5\text{EU/mg}$	Conforms
9	Peptide Content (N determination)	$\geq 80.0\%$	86.9%
10	Assay (By Anhydrous, Acetic Acid-free)	95.0~105.0%	102.8%