



## Certificate of Analysis

### MOTs-C Acetate

**Product Name** : MOTs-C Acetate **Lot No.** : DL7622  
**Mfg. Date** : Mar 26, 2023 **Exp. Date** : Mar 25, 2026  
**CAS No.** : 1627580-64-6 (Free base) **Batch Qty** : 740 g  
**MF** :  $C_{103}H_{156}N_{28}O_{24}S_2$  **MW** : 2234.64  
**Sequence** : Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg •  $CH_3COOH$

TESTS	SPECIFICATIONS		RESULTS
Appearance	White to off-white powder		White powder
Amino Acid (HPLC)	Met	1.8 – 2.2	2.0
	Arg	2.7 – 3.3	3.1
	Glx	1.8 – 2.2	2.1
	Gly	0.9 – 1.1	1.0
	Tyr	1.8 – 2.2	2.1
	Ile	0.9 – 1.1	1.0
	Phe	0.9 – 1.1	1.0
	Pro	0.9 – 1.1	1.0
	Lys	0.9 – 1.1	0.9
	Leu	0.9 – 1.1	1.0
Solubility	Soluble in water and 1% acetic acid		Conforms
Mass (MS)	$2174.34 \pm 2$		2174.61
Acetic Acid (HPLC)	$\leq 13.0\%$		8.3%
Purity (HPLC) (CP2020)	$\geq 98.0\%$		99.5%
Water content (KF)	$\leq 7.0\%$		4.0%
Impurities (HPLC)	Total Impurities	$\leq 2.0\%$	0.5%
	Largest Single Impurity	$\leq 1.0\%$	0.5%
Bacterial Endotoxins (USP2022)	$\leq 10$ EU/mg		< 10 EU/mg
Microbial Limits (USP2022)	Total Aerobic Microbial Count	$\leq 10^2$ CFU/g	< 20 CFU/g
	Total Yeast & Mold Count	$\leq 10^2$ CFU/g	< 20 CFU/g
	E. coli	Absent	Absent
Conclusion: The product is a synthetic peptide and meets the In-House specifications. Long Term Storage: Store in a sealed container at 2°C - 8°C in a Fridge or in a Freezer. Distributed by Darmerica.			

Note: Analytical results transcribed from the original COA provided by Shanxi Raygesun Biotechnology Co., Ltd. (China); Lot No. MTC20230326-11.

Based on the review of above information, the lot stands released.

	Name	Title	Signature	Date
Prepared by	Kamlesh Mistry	Quality Manager		09/01/2023
Released by	Faiz Badrudeen	Quality Assistant		09/14/2023