PRIME PEPTIDES UK

Certificate of Analysis

MOTS-c

40 mg · Lyophilised powder

BATCH MS-40-21

PURITY · HPLC	IDENTITY · LC-MS	BATCH STATUS
≥ 99.0 %	**Confirmed**	**Released**
Threshold ≥ 98.0 %	2174.6 g/mol observed	Meets specification

PRODUCT IDENTIFICATION

Product name	MOTS-c	Strength	40 mg per vial
Chemical name	Mitochondrial ORF of the 12S rRNA type-c peptide	Physical form	Lyophilised powder
CAS number	1627580-64-6	Container	3 mL glass vial, flip-off seal
Molecular formula	$C_{101}H_{152}N_{28}O_{22}S_2$	Manufactured	Oct 2026
Molecular weight	2174.6 g/mol	Retest / expiry	Oct 2028
Sequence · 16 aa	Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg		

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	STATUS
Appearance	Visual	White / off-white lyophilised powder	**White powder**	✔ Pass
Identity	LC-MS (ESI)	Mass consistent with $C_{101}H_{152}N_{28}O_{22}S_2$	**Conforms**	✔ Pass
Purity	RP-HPLC, 220 nm	≥ 98.0 %	**≥ 99.0 %**	✔ Pass
Net content	Gravimetric	40 mg per vial, ± 5 %	**Conforms**	✔ Pass
Counter-ion	TFA residual	≤ 1.0 %	**Conforms**	✔ Pass

STORAGE & HANDLING

Lyophilised powder
Store refrigerated at 2–8 °C. For long-term storage keep at −20 °C.

Light & moisture
Protect from light. Keep the vial sealed until reconstitution.

Reconstituted solution
Store at 2–8 °C and avoid repeated freeze–thaw cycles.

Conclusion. The product has been tested and complies with the specifications stated above.

For research use only. This product is supplied strictly for in-vitro laboratory research. Not for human or veterinary use, not a drug, food, cosmetic or medical device. Keep out of reach of children.

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