PRIME PEPTIDES UK

Certificate of Analysis

Thymosin Alpha-1

5 mg · Lyophilised powder

BATCH TA-05-32

PURITY · HPLC	IDENTITY · LC-MS	BATCH STATUS
≥ 99.0 %	**Confirmed**	**Released**
Threshold ≥ 98.0 %	3108.3 g/mol observed	Meets specification

PRODUCT IDENTIFICATION

Product name	Thymosin Alpha-1	Strength	5 mg per vial
Chemical name	Thymalfasin; N-acetylated 28-residue peptide	Physical form	Lyophilised powder
CAS number	62304-98-7	Container	3 mL glass vial, flip-off seal
Molecular formula	$C_{129}H_{215}N_{33}O_{55}$	Manufactured	Oct 2026
Molecular weight	3108.3 g/mol	Retest / expiry	Oct 2028
Sequence · 28 aa	Ac-Ser-Asp-Ala-Ala-Val-Asp-Thr-Ser-Ser-Glu-Ile-Thr-Thr-Lys-Asp-Leu-Lys-Glu-Lys-Lys-Glu-Val-Val-Glu-Glu-Ala-Glu-Asn		

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	STATUS
Appearance	Visual	White / off-white lyophilised powder	**White powder**	✔ Pass
Identity	LC-MS (ESI)	Mass consistent with $C_{129}H_{215}N_{33}O_{55}$	**Conforms**	✔ Pass
Purity	RP-HPLC, 220 nm	≥ 98.0 %	**≥ 99.0 %**	✔ Pass
Net content	Gravimetric	5 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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