Certificate of Analysis

Product Name: Epithalon(Specification 50mg)

CAS No.: 136765-43-0 **Lot No.**: ET50-20260728J

Molecular Formula:$C_{16}H_{24}N_8O_8$ **Manufacturing Date**: 2026.07.28

Molecular Weight: 456.42 **Retest Date** : 2027.07.28

Peptide Sequence: H-Ala-Glu-Asp-Gly-OH

Store at:

Lyophilized bulk powder: Store at ≤ -20°C, protected from light & moisture

Reconstituted solution: Store at 2–8°C, use within 7 days

TEST	SPECIFICATION	RESULT
Appearance	White to off-white lyophilized powder	Conform
MS (ESI)	Match theoretical molecular ion	Consistent with target mass
Purity (RP-HPLC)	≥98.0%	99.48%
Total Related Substances (RP-HPLC)	≤ 2.0%	0.52%
Water Content (Karl Fischer)	≤ 8.0%	3.6%
Acetic Acid Content (IC/HPLC)	≤ 10.0%	5.5%
Organic Solvents Residue (GC)Acetonitrile / DCM / DMF / Ethanol	Total ≤ 1.0%	<0.1%
Cadmium (Cd)	≤0.1 ppm	N.D.
Lead (Pb)	≤0.5 ppm	N.D.
Mercury (Hg)	≤0.1 ppm	N.D.
Arsenic (As)	≤0.3 ppm	N.D.
Endotoxin (LAL Method, injectiongrade mandatory)	≤ 5 EU/mg protein	<0.52EU/mg
Total Aerobic Microbial Count	≤ 100 CFU/g	<10 CFU/g
Yeast & Mould Count	≤ 10 CFU/g	<10 CFU/g

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Pathogens (E.coli / Salmonella / S.aureus)	Absent in 1g sample	Negative

Conclusion: The product conforms with enterprise standard and qualified.

QC Director: Hao Chen

1.The material is non-explosive, non-corrosive, non-radioactive, non-flammable, non-toxic and harmful, and is not a raw material for the manufacture of chemical weapons.

2.This product is a sample of chemical synthesis (not of a biological origin i.e. not of animal, human or plant origin)

3.The above material is to be used exclusively for in vitro laboratory research purposes only.

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