MZ Biolabs

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CERTIFICATE OF ANALYSIS

High-Performance Liquid Chromatography & Mass Spectrometry Report

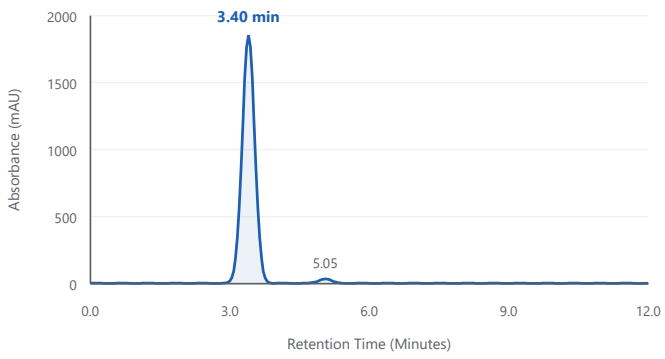
Sample Name	**Epithalon**
Client Name	Genix Labs
Lot Number	**489053**
CAS Number	**307297-39-8**
Chemical Name	Ala-Glu-Asp-Gly (Epitalon, AEDG)

Molecular Formula	$C_{14}H_{22}N_4O_9$
Molecular Weight	**390.34 g/mol**
Analysis Date	June 11, 2026
Report Date	June 12, 2026
Analytical Method	HPLC-UV-MS (220 nm)

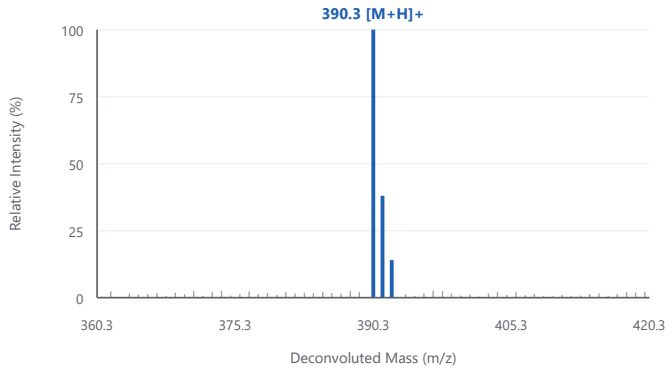
ANALYTICAL RESULTS

Test Parameter	Specifications	Observed Result	Status
Appearance	White lyophilized solid	Conforms	**PASS**
Identity (LC-MS)	Observed mass conforms to structure	390.3 amu	**PASS**
Purity (HPLC-UV)	Minimum 98.00% by chromatogram area	**99.40%**	**PASS**
Peptide Content	Report actual content percentage	98.90%	**PASS**

HPLC CHROMATOGRAM (UV @ 220 NM)



MASS SPECTRUM (ESI-MS DECONVOLUTED)



Peak #	Retention Time (min)	Peak Area (mAU*s)	Area %
1	3.40	15307.60	**99.40%**
2	5.05	92.40	**0.60%**
Total		**15400.00**	**100.00%**

Deconvolution Results:
Expected Mass: **390.34 amu**
Observed Mass: **390.27 amu** (± 0.5 amu)
Conclusion: Mass matches expected molecular structure.

Report Notes & Disclaimer:

This analysis was performed by High-Performance Liquid Chromatography (HPLC) with Ultraviolet (UV) detection coupled with Electrospray Ionization Mass Spectrometry (ESI-MS). Purity value is calculated by integrating chromatogram peak areas at 220 nm. Peptide content was determined by nitrogen content elemental analysis. Salts, counter-ions, sugars (excipients), or residual water molecules resulting from lyophilization are not counted as chemical impurities under normal UV chromatographic detection protocols. The results detailed in this Certificate of Analysis relate solely to the specific sample lot number tested as received. For laboratory research use only. Not for human use.

Ken Pendarvis, ChE
Lead Analytical Chemist, MZ Biolabs
Quality Assurance Sign-Off

MZ BIOLABS ★ QA APPROVED ★ TUCSON, ARIZONA ★ VERIFIED

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