

L-Carnitine

Metabolic & Longevity • 500mg • Research Use Only

1. SAMPLE IDENTIFICATION

Product	L-Carnitine	Batch / Lot no.	GP26-2120
Category	Metabolic & Longevity	Strength	500mg
Presentation	Research Vial	Dosage form	Lyophilised Powder

2. IDENTITY CONFIRMATION

Method	LC-MS (ESI-Q-TOF)	Result	Conforms to reference standard
[M+H] ⁺ observed	1263.6 m/z	[M+H] ⁺ theoretical	1263.5 m/z
[M+2H] ²⁺ observed	632.3 m/z	Mass deviation	+0.1 Da

3. PURITY AND QUANTITATIVE CONTENT

Technique	UPLC	Method	UPLC-UV, 214 nm
Chromatographic purity	99.1 % (area normalisation)	Content, % of label claim	100.0 %
Measured content	500 mg/vial (label claim 500mg)		

4. ANALYTICAL DATA

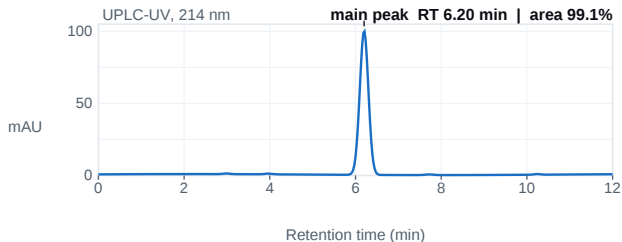


Fig. 1 — UPLC chromatogram; main peak 6.20 min, 99.1% area.

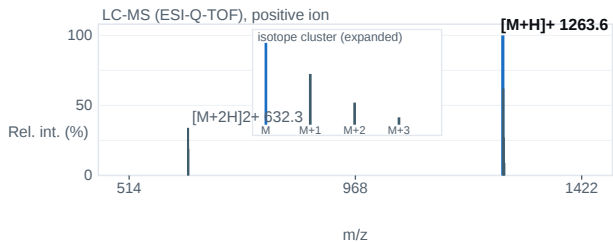


Fig. 2 — ESI-Q-TOF mass spectrum; base peak [M+H]⁺ 1263.6 m/z.

RESULT

PASS — Identity conforms; chromatographic purity 99.1%

5. AUTHORISATION AND VERIFICATION

Analyst	Dr. S. Patel	Approved (QA)	Dr. N. Kowalski
Date of test	6 September 2026	Date of manufacture	20 August 2026
Expiry	20 August 2029	Laboratory	Puralytix Analytical Laboratories

Verify this certificate

Report ID: **GP26-2120**

Verification key: **CPRN-JAPV**

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