

L-Carnitine

Metabolic & Longevity • 5000mg • Research Use Only

1. SAMPLE IDENTIFICATION

Product	L-Carnitine	Batch / Lot no.	GP26-2117
Category	Metabolic & Longevity	Strength	5000mg
Presentation	Research Vial	Dosage form	Lyophilised Powder

2. IDENTITY CONFIRMATION

Method	LC-MS (ESI-Q-TOF)	Result	Conforms to reference standard
[M+H] ⁺ observed	2138.5 m/z	[M+H] ⁺ theoretical	2139.0 m/z
[M+2H] ²⁺ observed	1070.0 m/z	Mass deviation	-0.5 Da

3. PURITY AND QUANTITATIVE CONTENT

Technique	HPLC	Method	RP-HPLC-UV, 214 nm
Chromatographic purity	98.5 % (area normalisation)	Content, % of label claim	98.6 %
Measured content	4930 mg/vial (label claim 5000mg)		

4. ANALYTICAL DATA

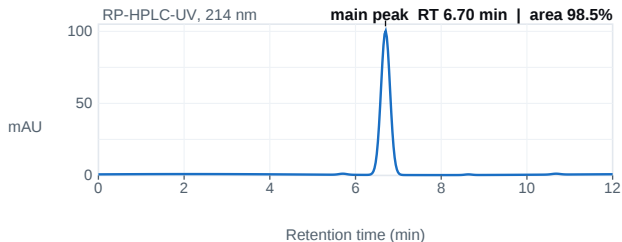


Fig. 1 — HPLC chromatogram; main peak 6.70 min, 98.5% area.

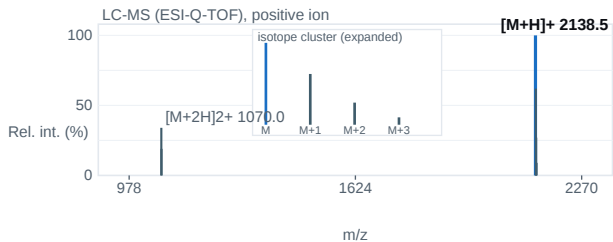


Fig. 2 — ESI-Q-TOF mass spectrum; base peak [M+H]⁺ 2138.5 m/z.

RESULT

PASS — Identity conforms; chromatographic purity 98.5%

5. AUTHORISATION AND VERIFICATION

Analyst	Dr. R. Okonkwo	Approved (QA)	Dr. N. Kowalski
Date of test	25 August 2026	Date of manufacture	8 August 2026
Expiry	8 August 2029	Laboratory	Puralytix Analytical Laboratories

Verify this certificate

Report ID: **GP26-2117**

Verification key: **ECGC-EHXB**

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