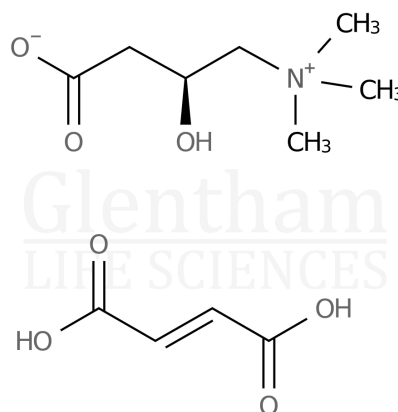


Certificate of Analysis

Product Name L-Carnitine fumarate
Glentham Code GX6145
CAS Number 90471-79-7
EINECS 291-749-4
MDL-Nummer MFCD01631178
Zusätzliche CAS 541-15-1
Batch Number 660BYX

Molecular Weight 277.27
Molecular Formula $C_{15}H_{25}NO_7$
Storage Temp. +20°C



Property	Specification	Batch 660BYX
Physical Description	White crystalline powder	White crystalline powder
Solubility (5% in water)	Clear, colourless solution	Entspricht
pH	3.0 - 4.0	3.3
Specific Optical Rotation	-18.5 - -16.5 °	-17.2°
Residue on Ignition	≤ 0.5%	0.1%
Heavy Metals	≤ 10ppm	Entspricht
Cadmium (Cd)	≤ 1ppm	Entspricht
Lead (Pb)	≤ 3ppm	Entspricht
Mercury (Hg)	≤ 0.1ppm	Entspricht
Arsenic (As)	≤ 1ppm	Entspricht
Water	≤ 1.0%	0.1%
D-Enantiomer	≤ 1.0%	0.1%
L-Carnitine Content	56.5 - 60.5 %	58.0%
Assay	97.5 - 102.5 % (L-Carnitine + Fumaric acid, dried basis)	99.7%

Specification Version v1.0
Manufacture Date 2024-03-14
Re-Test Date 2032-09-23

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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