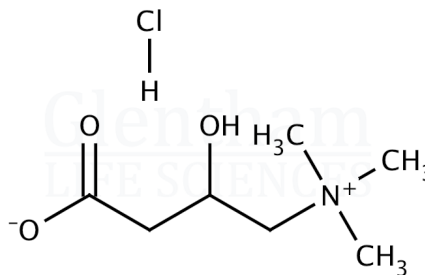


Certificate of Analysis

Product Name	L-Carnitine hydrochloride
Glentham Code	GM4580
CAS Number	6645-46-1
EINECS	229-663-6
MDL-Nummer	MFCD00066100
PubChem SID	310269396
Batch Number	276WVF
Molecular Weight	197.66
Molecular Formula	$C_7H_{15}NO_3 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 276WVF
Physical Description	White powder	White powder
Identification (IR)	To conform to standard	Entspricht
Solubility (5% in water)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation	-21.0 - -25.0 ° (c=1, water)	-23.6°
Chloride (Cl)	17.0 - 18.5 %	18.1%
Residue on Ignition	≤ 0.5%	≤ 0.1%
Arsenic (As)	≤ 1ppm	Entspricht
Lead (Pb)	≤ 3ppm	Entspricht
Cadmium (Cd)	≤ 1ppm	Entspricht
Mercury (Hg)	≤ 0.1ppm	Entspricht
Heavy Metals	≤ 10ppm	Entspricht
D-Carnitine	≤ 0.1%	0.0%
Loss on Drying	≤ 2.0%	0.2%
Assay	98.0 - 102.0 % (dried basis)	99.2%

Specification Version	v1.1
Manufacture Date	2023-03-18
Re-Test Date	2031-06-05

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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