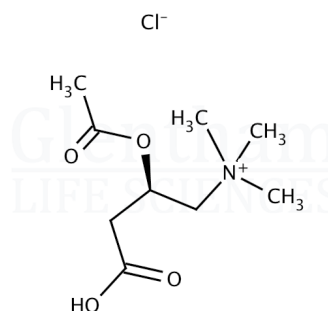


Certificate of Analysis

Product Name	Acetyl-L-carnitine hydrochloride
Glentham Code	GK5992
CAS Number	5080-50-2
MDL Number	MFCD00082230
PubChem SID	310265487
Additional CAS	3040-38-8
Batch Number	721OFD

Molecular Weight	239.70
Molecular Formula	$C_9H_{17}NO_4 \cdot HCl$
Storage Temp.	+4°C



Property	Specification	Batch 721OFD
Physical Description	White to almost white powder	White powder
Solubility (10% in water)	Clear, colourless solution	Conforms
Specific Optical Rotation ($[\alpha]_{20/D}$)	-26.0 - -29.0 ° (c=1, water)	-27.8 °
Assay	98.0 - 102.0 %	≥ 99.9%

Specification Version	v1.0
Manufacture Date	2023-11-30
Re-Test Date	2031-01-18

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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