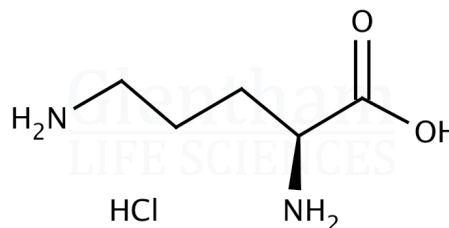


Certificate of Analysis

Product Name	L-Ornithine monohydrochloride
Glentham Code	GM2431
CAS Number	3184-13-2
EINECS	221-678-6
MDL Number	MFCD00064562
PubChem SID	310278380
Batch Number	416TUL
Molecular Weight	168.62
Molecular Formula	$C_5H_{12}N_2O_2 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 416TUL
Physical Description	White crystalline powder	White crystalline powder
Assay	99.0 - 101.0 %	99.4%
pH	5.0 - 6.0	5.2
Loss on Drying	≤ 0.2%	0.09%
Residue on Ignition	≤ 0.1%	0.02%
Heavy Metals (as Pb)	≤ 10ppm	Conforms
Arsenic (As)	≤ 1ppm	Conforms
Lead (Pb)	≤ 3ppm	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms
Sulphate (SO4)	≤ 200ppm	Conforms
Ammonia (NH4)	≤ 200ppm	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Specific Optical Rotation	+23.0 - +25.0 °	+23.8°

Specification Version	v1.0
Manufacture Date	2021-07-17
Re-Test Date	2029-10-26

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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