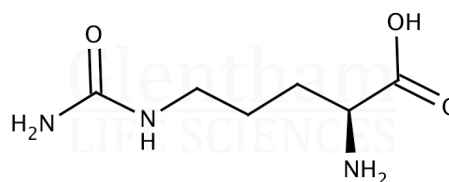


Certificate of Analysis

Product Name	L-Citrulline
Glentham Code	GM7920
CAS Number	372-75-8
EINECS	206-759-6
MDL Number	MFCD00064397
PubChem SID	310270372
Batch Number	612TMD
Molecular Weight	175.19
Molecular Formula	$C_6H_{13}N_3O_3$
Storage Temp.	+20°C



Property	Specification	Batch 612TMD
Physical Description	White or almost white crystalline powder	White crystalline powder
Solubility (5% in water)	Clear, colourless solution	Conforms
Specific Optical Rotation ([α] _D ²⁰)	+24.5 - +26.8 ° (c=8, 6M HCl)	+25.8°
Residue on Ignition	≤ 0.1%	0.08%
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	Conforms
Ammonium (NH ₄)	≤ 200ppm	Conforms
Chloride (Cl)	≤ 200ppm	Conforms
Sulphate (SO ₄)	≤ 200ppm	Conforms
Loss on Drying	≤ 0.5%	0.19%
Assay	98.0 - 102.0 % (dried basis)	99.8%

Specification Version	v1.0
Manufacture Date	2017-03-20
Re-Test Date	2027-09-06

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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