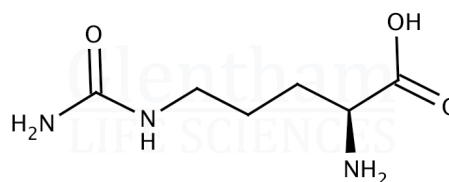


## Certificate of Analysis

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] <sub>20/D</sub> )	+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 <sub>4</sub> )	≤ 200ppm	Conforms
Chloride (Cl)	≤ 200ppm	Conforms
Sulphate (SO <sub>4</sub> )	≤ 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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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