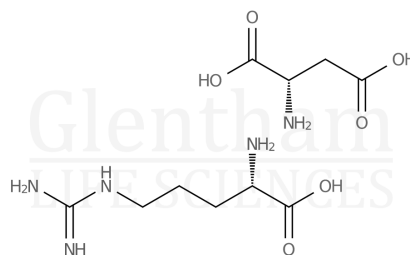


Certificate of Analysis

Product Name L-Arginine L-aspartate
Glenthams Code GH1375
CAS Number 7675-83-4
EINECS 231-656-8
MDL Number MFCD00058334
Batch Number 682DWX

Molecular Weight 307.30
Molecular Formula $C_4H_7NO_4 \cdot C_6H_{14}N_4O_2$
Storage Temp. +20°C



Property	Specification	Batch 682DWX
Physical Description	White or almost white crystalline powder	White crystalline powder
Identification (IR)	To conform to standard	Conforms
Solubility (10% in water)	Clear, colourless solution	Conforms
pH (10% in water)	5.5 - 7.0	6.4
Specific Optical Rotation ($[\alpha]_{20/D}$)	+24.5 - +28.5 ° (c=8, 6M HCl)	+26.3 °
Chloride (Cl)	≤ 0.05%	Conforms
Sulphate (SO ₄)	≤ 0.03%	Conforms
Ammonium (NH ₄)	≤ 0.02%	Conforms
Other Amino Acids	Not detectable	Conforms
Iron (Fe)	≤ 30ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	Conforms
Arsenic (As)	≤ 1ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Residue on Ignition	≤ 0.2%	0.06%
Loss on Drying	≤ 3.0%	0.6%
Assay	98.0 - 101.0 %	99.5%

Specification Version v1.0
Manufacture Date 2020-01-03
Re-Test Date 2028-06-09

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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