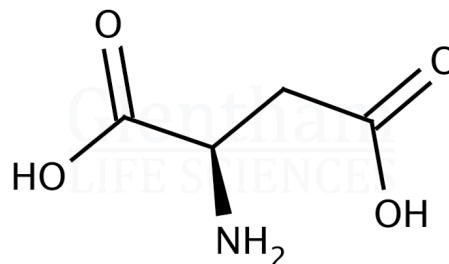


Certificate of Analysis

Product Name D-Aspartic acid
Glenthams Code GM2767
CAS Number 1783-96-6
EINECS 217-234-6
MDL Number MFCD00063081
PubChem SID 310267058
Batch Number 873MPQ

Molecular Weight 133.10
Molecular Formula $C_4H_7NO_4$
Storage Temp. +20°C



Property	Specification	Batch 873MPQ
Physical Description	White to almost white powder	White crystalline powder
Solubility (5% in 1M NH4OH)	Clear, colourless to very faint yellow solution	Conforms
Specific Optical Rotation ($[\alpha]_{20/D}$)	-26.0 - -24.0 ° (c=5, 5M HCl)	-25.41 °
Chloride (Cl)	≤ 0.02%	Conforms
Ammonium (NH4)	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals	≤ 10ppm	Conforms
Arsenic (As2O3)	≤ 1ppm	Conforms
Lead (Pb)	≤ 3ppm	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms
Residue on Ignition	≤ 0.1%	0.07%
L-Isomer	≤ 0.5%	Conforms
Other Amino Acids	≤ 0.3%	Not detected
Loss on Drying	≤ 0.5%	0.06%
Assay	99.0 - 101.0 % (anhydrous basis)	99.6%

Specification Version v1.0
Manufacture Date 2020-01-10
Re-Test Date 2029-02-02

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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