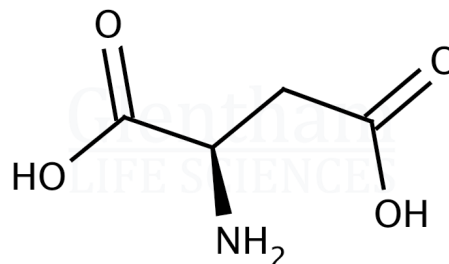


## Certificate of Analysis

Product Name	D-Aspartic acid
Glentham 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 <sub>4</sub> H <sub>7</sub> NO <sub>4</sub>
Storage Temp.	+20°C



Property	Specification	Batch 873MPQ
Physical Description	White to almost white powder	White crystalline powder
Solubility (5% in 1M NH <sub>4</sub> OH)	Clear, colourless to very faint yellow solution	Conforms
Specific Optical Rotation ([α] <sub>D</sub> <sup>20</sup> )	-26.0 - -24.0 ° (c=5, 5M HCl)	-25.41 °
Chloride (Cl)	≤ 0.02%	Conforms
Ammonium (NH <sub>4</sub> )	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals	≤ 10ppm	Conforms
Arsenic (As <sub>2</sub> O <sub>3</sub> )	≤ 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

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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