

# CERTIFICATE OF ANALYSIS

Product Name:	L-Arginine-L-Aspartate	Report Date:	May 10, 2017
Formula:	C <sub>10</sub> H <sub>21</sub> N <sub>5</sub> O <sub>6</sub>	Batch No.:	170510
CAS No.:	7675-83-4	Manu. Date:	May 02, 2017
Inspection Standard:	AJI92	Exp. Date:	May 01, 2019

## RESULTS OF ANALYSIS

Test Items	Specifications	Results	Test Methods
Appearance	White crystalline powder	Conforms	Visual
Specific rotation [ $\alpha$ ]D20	+25.5 to +27.5o	+25.9o	AJI TEST 1 [dried samples, C=8,6N HCL]
State of solution (Transmittance)	Clear and colorless not less than 98.0%	99.2%	AJI TEST 2
Chloride(Cl)	Not more than 0.05%	<0.05%	AJI TEST 3
Ammonium(NH4)	Not more than 0.02%	<0.02%	AJI TEST 4
Sulfate(SO4)	Not more than 0.030%	<0.030%	AJI TEST 5
Iron(Fe)	Not more than 30ppm	<30ppm	AJI TEST 6
Heavy Metal(Pb)	Not more than 10ppm	<10ppm	AJI TEST 7
Arsenic(as As2o3)	Not more than 1ppm	<1ppm	AJI TEST 8
Lead	Not more than 3ppm	<3ppm	AFS
Other amino acids	Chromatographically not detectable	Conform	AJI TEST 9
Loss on drying	Not more than 3.0%	1.84%	AJI TEST 11
Residue on ignition(sulfated)	Not more than 0.20%	0.05%	AJI TEST 13
Assay	98.5 to 101.0%	99.0%	AJI TEST 14
pH	5.5 to 7.0	5.9	AJI TEST 33
<b>Conclusion:</b>	Conforms to the specifications of USP38		

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