



Product Specification

Ver_3.0_Issued in Apr, 2019

L –Glutamine

1. Product and Company Information

White crystals or crystalline powder; slightly characteristic taste. Soluble in water, practically insoluble in ethanol and in ether

Chemical Formula : $C_5H_{10}N_2O_3$
 Formula Weight : 146.14 g/mol
 CAS Number : 56-85-9
 EINECS Number : 200-292-1
 Manufacturer Name : CJ Haide (Ningbo) Biotech Co., Ltd.
 Manufacturer Address : #799 Feng xiang Rd, Xiepu, Zhenhai, Ningbo 315204 China

2. Chemical / Analytical Information

This product meets quality requirements of USP41 and FCC10 monographs

Analysis Item	Specification	Method
Characters, Appearance	White or almost white, crystalline powder or colourless crystals	
Characters, Solubility	Soluble in water, practically insoluble in ethanol and in ether	
Identification	Infrared absorption	USP 41
Assay	NLT 98.5% and NMT 101.5%	USP 41
Residue on Ignition (Sulfated Ash)	NMT 0.1%	USP 41
Chloride	NMT 0.05%	USP 41
Sulfate	NMT 0.03%	USP 41
Iron	NMT 30 ppm	USP 41
Lead	NMT 0.5 ppm	USP 41
Arsenic	NMT 0.5 ppm	USP 41
Cadmium	NMT 0.5 ppm	USP 41
Mercury	NMT 0.1 ppm	USP 41
Heavy Metals	NMT 15 ppm	USP 41
L-Glutamic acid (impurity)	NMT 0.5%	USP 41
Optical Rotation	+6.3° to +7.3° (at 20°C)	USP 41
pH	4.0~ 6.0	In house
Loss on Drying	NMT 0.3%	USP 41

3. Microbiological Information

Analysis Item	Specification	Method
Total viable count	NMT 1000 cfu/g	USP 41
Yeast & mould	NMT 100 cfu/g	USP 41
Enterobacteriaceae	Negative/10g	ISO
Salmonella sp.	Negative/25g	USP 41
Coliforms bacteria	Negative/g	USP 41
Escherichia coli	Negative/g	USP 41
Staphylococcus aureus	Negative/g	USP 41
Bacillus sp.	Negative/g	GB
Clostridium sp.	Negative/g	USP 41

4. Storage Conditions & Shelf life

Keep container dry and tightly closed; Keep in a cool well-ventilated place; Keep away from heat and oxidizing agents.

Shelf life: Recommend usage within 3 years from date of production

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