



**Specification for L-Asparagine, Monohydrate, FCC, EP,
bioCERTIFIED (TM) (A9602)**

Item Number	A9602
Item	L-Asparagine, Monohydrate, FCC, EP, bioCERTIFIED (TM)
CAS Number	5794-13-8
Molecular Formula	C ₄ H ₈ N ₂ O ₃ •H ₂ O
Molecular Weight	150.13
MDL Number	
Synonyms	L-?-Aminosuccinamic Acid

Test	Specification	
	Min	Max
Assay (C ₄ H ₈ N ₂ O ₃ ; Dried Basis, FCC)	98.0	101.5 %
Assay (C ₄ H ₈ N ₂ O ₃ ; Dried Substance, EP)	99.0	101.0 %
Optical Rotation, (FCC) [α] _D 20	+33.0° to +36.5°	
Specific Optical Rotation (Dried Substance, EP)	+33.7° to +36.0°	
APPEARANCE OF SOLUTION	TO PASS TEST	
LOSS ON DRYING (FCC)	11.5	12.5 %
LOSS ON DRYING (EP)	10.5	12.5 %
LEAD		5 mg/kg
RELATED SUBSTANCES (EP):		
IMPURITY A		0.5 %
IMPURITY C		0.1 %
UNSPECIFIED IMPURITIES		0.05 %
TOTAL IMPURITIES		0.8 %
CHLORIDES (EP)		200 ppm
SULFATES (EP)		200 ppm
AMMONIUM (EP)		0.1 %
IRON (EP)		10 ppm
RESIDUE ON IGNITION/SULFATED ASH		0.1 %
ENDOTOXIN		0.04 EU/mg
BIOBURDEN		10 CFU/g
ELEMENTAL IMPURITIES		AS REPORTED
IDENTIFICATION		TO PASS TEST
RETEST DATE		
DATE OF MANUFACTURE		

Test	Specification	
	Min	Max
RESIDUAL SOLVENTS		AS REPORTED

Spectrum Chemical Mfg Corp

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