



**Specification for Methionine, USP, bioCERTIFIED (TM)
(ME919)**

Item Number	ME919
Item	Methionine, USP, bioCERTIFIED (TM)
CAS Number	63-68-3
Molecular Formula	C ₅ H ₁₁ NO ₂ S
Molecular Weight	149.21
MDL Number	
Synonyms	L-2-Amino-4-(methylthio)butyric Acid

Test	Specification	
	Min	Max
ASSAY (DRIED BASIS)	98.5	101.5 %
SPECIFIC ROTATION	+22.4° to +24.7°	
pH (1 IN 100)	5.6	6.1
LOSS ON DRYING		0.3 %
RELATED COMPOUNDS	TO PASS TEST	
METHIONINE SULFOXIDE		0.1 %
N-ACETYL-D,L-METHIONINE		0.2 %
ANY UNSPECIFIED IMPURITIES		0.1 %
TOTAL IMPURITIES		0.30 %
RESIDUE ON IGNITION		0.4 %
CHLORIDE		0.05 %
SULFATE		0.03 %
IRON		30 ppm
ELEMENTAL IMPURITIES	AS REPORTED	
MICROBIAL LIMITS:		
TAMC		1000 CFU/g
TYMC		100 CFU/g
Endotoxins		10 IU/g
IDENTIFICATION		
APPEARANCE		
EXPIRATION DATE		
DATE OF MANUFACTURE		
RESIDUAL SOLVENTS	AS REPORTED	

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