

Certificate of Analysis

Product Name:

L-Methionine PH ExciPur

**According to monographs: USP & BP/EP
Standard GMP Grade**

Product No.: PSR50327
Lot No.: Sample COA
Brand: PureSynth
CAS No.: 63-68-3
Molecular Formula: C₅H₁₁NO₂S
Molecular Weight: 149.21 g/mol
Date of Mfg.: NA
Date of Exp.: NA

Test	Specification	Result
Appearance	White or almost white, crystalline powder or colourless crystals	White crystalline powder
Assay (dried basis) (USP)	98.5 – 101.5 %	100.15 %
Loss on drying at 105°C	NMT 0.30 %	0.12 %
Identification Test A (USP)	Conforms to structure	Conforms
Specific rotation (USP)	+22.4 ° - +24.7 °	+23.5 °
pH (USP)	5.6 – 6.1	5.8
Residue on Ignition (USP)	NMT 0.4 %	0.01 %
Chloride (USP)	NMT 0.05 %	< 0.05 %
Sulfate (USP)	NMT 0.03 %	< 0.03 %
Iron (USP)	NMT 0.003%	< 0.003%
Heavy Metals (USP)	NMT 0.0015%	< 0.0015%
Residual Solvents (USP)	Complies	Complies
Solubility (USP)	Soluble in water, in warm dilute alcohol, and in dilute mineral acids; insoluble in ether, in absolute alcohol, in benzene, and in acetone	Complies
Assay (dried basis) (BP/EP)	99.0 – 101.0 %	100.00 %
Loss on drying at 105°C (BP/EP)	NMT 0.50 %	0.12 %
Identification Test A (BP/EP)	Complies	Complies
Identification Test B (BP/EP)	Conforms to structure	Conforms
Appearance of solution (BP/EP)	Clear colourless solution	Complies
pH (BP/EP)	5.5 – 6.5	5.8
Specific optical rotation (BP/EP)	+22.5 ° to +24.0 °	+23.5 °

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.
For queries on this COA, please contact our technical team at technical@pure-synth.com

Chlorides (BP/EP)	NMT 200 ppm	< 200 ppm
Sulfates (BP/EP)	NMT 300 ppm	< 300 ppm
Ammonium (BP/EP)	NMT 200 ppm	< 200 ppm
Iron (BP/EP)	NMT 10 ppm	< 10 ppm
Sulphated ash (BP/EP)	NMT 0.10 %	0.01 %
Related substances (BP/EP)	Conforms	Conforms
Total impurity (BP/EP)	NMT 0.30 %	< 0.30 %
Solubility (BP/EP)	Soluble in water, very slightly soluble in ethanol (96%)	Complies
Bacterial endotoxins test (BET)	NMT 20 EU/g	< 20 EU/g

Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

Retest period: 24 months

Storage Condition:

Store at room temperature and keep the container tightly closed.

PureSynth Research Chemicals GmbH

This is electronically-generated copy & is valid without a signature

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.
For queries on this COA, please contact our technical team at technical@pure-synth.com