



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-203302
Lot Number: SAMPLE
Product Name: Trimethoprim
CAS Number: 738-70-5
Molecular Formula: $C_{14}H_{18}N_4O_3$
Molecular Weight: 290.32

Test	Specification	Result
Appearance	White or yellowish-white powder	White powder
Identification (Infrared Spectrum)	Consistent with reference spectrum	Complies
Purity	98.5 - 101.0%	99.71%
Melting Point	199 - 203 °C	201.0 - 201.4 °C
Residual Solvents	Methanol \leq 3000 ppm DMSO \leq 5000 ppm Acetic acid \leq 5000 ppm	Not detected Not detected Not detected
Solubility	Very slightly soluble in water, slightly soluble in alcohol	Complies
Solution	Not more intensely colored than reference Solution BY ₇	Less intensely colored than reference solution BY ₇
Total Impurities (HPLC)	\leq 0.2%	< 0.2%
Absorbance	Max. 287 nm: 240 - 250	243
Fluorescence	Green fluorescence at 365 nm	Complies
Heavy Metals	\leq 20 ppm	< 20 ppm
Impurity	Impurity F \leq 0.1% Impurity K (aniline by GC) \leq 5 ppm	0.05% Not detected
Loss on Drying	\leq 1.0%	0.3%
Single Impurity	\leq 0.1%	< 0.1%
Sulfated Ash	\leq 0.1%	0.02%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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