



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-215309
Lot Number: SAMPLE
Product Name: Methotrexate trihydrate
CAS Number: 133073-73-1
Molecular Formula: $C_{20}H_{22}N_8O_5 \cdot 3H_2O$
Molecular Weight: 508.50

Test	Specification	Result
Appearance	Yellow crystalline powder	Complies
Assay	98.0 - 102.0%	99.2%
Chromatographic Purity	Total $\leq 2.0\%$ Individual $\leq 0.5\%$	0.8% 0.45%
Identification (Infrared Spectrum)	Conforms with structure	Complies
Identification (UV)	Conforms with structure	Complies
Residue on Ignition	$\leq 0.1\%$	0.02%
Specific Rotation	$+19^\circ \sim +24^\circ$	$+19.4^\circ$
Water Content	$\leq 12.0\%$	10.0%

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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