



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-250419A
Lot Number: SAMPLE
Product Name: Moxalactam sodium salt
CAS Number: 64953-12-4
Molecular Formula: $C_{20}H_{18}N_6O_9S \cdot 2Na$
Molecular Weight: 564.44

Test	Specification	Result
Appearance	White or light yellow powder or solid	Complies
Assay (Dried Basis)	$\geq 85\%$	94.7%
Identification (1H-NMR)	Conforms to structure	Complies
Identification (Infrared Spectrum)	Conforms to structure	Complies
Identification (UV)	Conforms to structure	Complies
Isomer Ratio	0.8 - 1.4 (R-isomer: S-isomer)	1.1
Purity (HPLC)	$\geq 95\%$	98.5%
pH	5.0-7.0	6.0
Solubility	Very soluble in water, freely soluble in methanol, and slightly soluble in ethanol (95%)	Complies
Optical rotation	-32.0° to -40.0°	-36.0°
Heavy Metals	≤ 10 ppm	Complies
Water Content	$\leq 5.0\%$	Complies

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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