



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-278820
Lot Number: SAMPLE
Product Name: Cefonicid sodium
CAS Number: 61270-78-8
Molecular Formula: $C_{18}H_{16}N_6O_8S_3 \cdot 2Na$
Molecular Weight: 586.52

Test	Specification	Result
Appearance		White Powder
Identification (HPLC)	Sodium	Complies
Particle Size	Particles > 10.0 micron Particles > 25.0 micron	≤ 6000 particles/g ≤ 600 particles/g
pH	(0.1% solution potentiometrically determined at $25 \pm 1^\circ C$)	6.0
Residual Solvents		$\leq 0.1\%$ Ethyl Alcohol $\leq 0.1\%$ Acetone $\leq 0.07\%$ Tetrahydrofuran $\leq 0.02\%$ Methylene chloride
Solubility	(0.1% aqueous solution with frequent agitation)	Clear, colorless solution (100% soluble after 15 min)
Absorbance		0.06 (10% Solution, 425 nm)
Infrared Spectrum	KBr technique	Complies
Specific Rotation		-40° (w/v in MeOH)
Impurity	Unknown	0.9%
Potency	HPLC	886 mcg/mg (anhydrous basis)
Related Substances		0.6% 3-TSA $\leq 1.0\%$ Formyl cefonicid $\leq 0.5\%$ 7-ACA
Total Impurities		3.3%
Water Content		2.8%
Endotoxin by LAL		≤ 0.15 EU/mg
Sterility		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.