



Certificate of Analysis

Cephalothin Sodium Salt

Catalog Number: CE1004
Lot Number: 0525801
CAS Number: 58-71-9
Synonym(s): 7-(2-Thienylacetamido)cephalosporanic acid sodium salt
Molecular Formula: $C_{16}H_{15}N_2O_6S_2Na$
Molecular Weight: 418.41
Storage: 2°C – 8°C
Date of Manufacture: July 10, 2016
Retest Date: July 9, 2019

Test	Specification	Result
Appearance	White to off-white crystalline powder	Conforms
Purity (HPLC, Dry Basis)	$\geq 850\mu\text{g}/\text{mg}$	939.8 $\mu\text{g}/\text{mg}$
Identification FTIR UV Absorption Sodium	To match reference spectrum Exhibits expected maxima and minima To pass test	Conforms Conforms Conforms
Crystallinity	To meet requirements	Conforms
Solubility (50mg/mL)	Clear & colorless to light yellow	Conforms
Specific Rotation (50mg/mL)	$+124^\circ$ to $+134^\circ$	$+132.1^\circ$
pH (250mg/mL)	6.5 – 8.5	6.5
Moisture (LOD)	$\leq 1.5\%$	0.29%
Related Substances Individual Impurity Total Impurities	$\leq 1.0\%$ $\leq 3.0\%$	0.28% 0.37%
Residual Solvents Acetone Ethyl Alcohol	Report Report	0.003% 0.15%
Bacterial Endotoxins	$\leq 0.13\text{EU}/\text{mg}$	$< 0.10\text{EU}/\text{mg}$

Approved by:

Date: May 25, 2018

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