



## Specification

### Cephalothin Sodium Salt

**Catalog Number:** CE1004  
**Lot Number:** 0124805  
**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  
**Retest Period:** Three years from the date of manufacture

Test	Specification
Appearance	White to off-white crystalline powder
Purity (HPLC, Dry Basis)	$\geq 850\mu\text{g}/\text{mg}$
Crystallinity	Particles show birefringence or exhibit extinction positions.
Solubility (50mg/mL)	Clear & colorless to light yellow
Transmission	Report
Specific Rotation (50mg/mL)	$+124^\circ$ to $+134^\circ$
pH (250mg/mL)	6.5 – 8.5
Moisture (LOD)	$\leq 1.5\%$
Related Substances Individual Impurity Total Impurities	$\leq 1.0\%$ $\leq 3.0\%$
Residual Solvents Acetone Ethyl Alcohol	Report Report
Bacterial Endotoxins	$\leq 0.13\text{EU}/\text{mg}$

Approved:

Date: September 12, 2018

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