



## Specification

### Amoxicillin Trihydrate USP

**Catalog Number:** AT1004  
**CAS Number:** 61336-70-7  
**Molecular Formula:**  $C_{16}H_{19}N_3O_5S \cdot 3H_2O$   
**Molecular Weight:** 419.50  
**Storage:**  $\leq 0^\circ C$   
**Retest Period:** Three years from the date of manufacture

Test	Specification
Appearance	White crystalline powder
Assay (HPLC, Dry Basis)	95.0 – 100.0%
Identification (IR)	To meet requirements
Optical Rotation	+290° to +315°
Solubility (0.2%)	Clear & colorless
pH (0.2%)	3.5 – 5.5
Bulk Density	0.15 – 0.40g/mL
Moisture (KF)	11.5 – 14.5%
Sulfated Ash	$\leq 1.0\%$
Related Substances	Any peak $\leq 1.0\%$
Dimethylanilin	$\leq 20ppm$
Residual Solvents	
Acetone	$\leq 800pp$
Dichloromethane	$\leq 600ppm$
N,N-dimethylacetamide	$\leq 1090ppm$
Pivalic Acid	$\leq 1000ppm$
Toluene	$\leq 600ppm$
Triethylamine	$\leq 300ppm$

Approved:

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