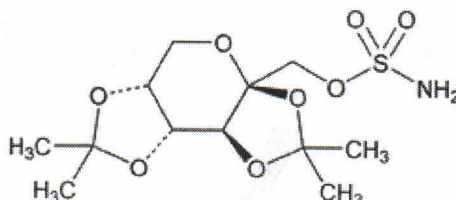


Batch no 241213  
Mf date Dec 15 2024  
Exp date Dec 14 2027  
Batch size 500 kg

Molecular Structure



Molecular Formula  $C_{12}H_{21}NO_8S$   
Molecular Weight 339.36  
CAS Registry Number 97240-79-4

Feb 20 2025

Tests	Specifications	Results
Appearance	White or almost white powder	Almost white powder
Solubility	Freely soluble in dichloromethane	Conforms
Identification	IR, HPLC	Positive
Specific rotation	$-28.6 \sim -35.0^\circ$ , measured at $20^\circ C$	$-32.2^\circ$
Related substances (HPLC)	Impurity A $\leq 0.3\%$ Fructose $\leq 0.3\%$ Single unidentified impurity $\leq 0.1\%$ Total impurities $\leq 0.5\%$	0.06% 0.01% 0.14% 0.26%
Sulfated ash	$\leq 0.2\%$	0.04%
Sulphamates & sulphates	Sulphamates $\leq 0.1\%$ Sulphates $\leq 0.1\%$	Undetected 0.002%
Water K.F.	$\leq 0.5\%$	0.08%
Residual organic solvents (GC)	Acetone $\leq 0.5\%$ Ethanol $\leq 0.5\%$ 2-Propanol $\leq 0.5\%$ Hexane $\leq 0.029\%$ Tetrahydrofuran $\leq 0.072\%$ Toluene $\leq 0.089\%$ Pyridine $\leq 0.02\%$	ND 0.0836% 0.02% Undetected Undetected Undetected Undetected
Assay (HPLC) oab	98.0 ~ 102.0% of $C_{12}H_{21}NO_8$	99.8%
Packaging and storage	Preserve in tight, light-resistant containers. Long time storage at $2 \sim 8^\circ C$	
Conclusion	Material complies with USP43	