

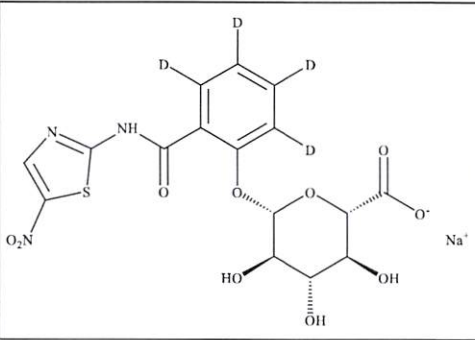
Certificate of Analysis

Certificate No.: **20251029011**



Date: October 29, 2025

Retest date: October 28, 2028

Compound Name: Tizoxanide-d ₄ Glucuronide Sodium Salt	
Synonyms:	(2S,3S,4S,5R,6S)-3,4,5-trihydroxy-6-(2-((5-nitrothiazol-2-yl)carbamoyl)phenoxy-3,4,5,6-d ₄)tetrahydro-2H-pyran-2-carboxylate acid, sodium salt (1:1)
TLC Catalogue Number:	T-444
CAS Number:	N/A
Alternate CAS Number:	221287-83-8 (non-labelled)
Molecular Weight:	444.38 22.99
Molecular Formula:	C ₁₆ H ₁₀ D ₄ N ₃ O ₁₀ S. Na
Source:	TLC Pharmaceutical Standards
Source Lot No.:	4087-013A5
Storage Conditions:	Store at -20 °C
Solubility:	Methanol, Water



Test Description	Specifications	Results
Visual Description	Yellow solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	98.4%
Impurity (HPLC)	RT 8.85, 0.26%; RT 11.75, 0.83%; RT 19.65, 0.48%	
Isotopic Enrichment	Not less than 98.0%	98.1%
Residual Solvents (NMR)	No residual solvent	
Assay (qNMR)	Not less than 85.0%	87.5%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		10/29/2025
Approved by:	Quality Assurance		10/29/2025

Attachments: Peak Attribution Table, HPLC, IR, MS and NMR spectra.