

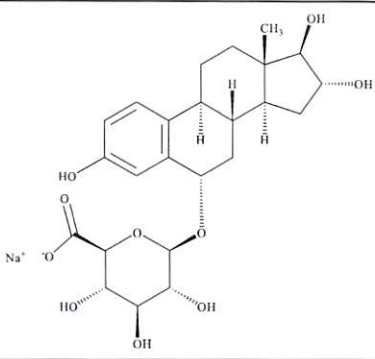
Certificate of Analysis

Certificate No.: **20250901005**


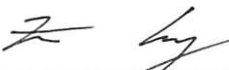
Date: September 1, 2025

Retest date: August 21, 2028

Compound Name: Estriol Impurity 2 Sodium Salt	
Synonyms:	(2S,3S,4S,5R,6R)-3,4,5-trihydroxy-6-(((6S,8R,9S,13S,14S,16R,17R)-3,16,17-trihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-6-yl)oxy)tetrahydro-2H-pyran-2-carboxylate, sodium salt (1:1)
TLC Catalogue Number:	E-3522
CAS Number:	N/A
Alternate CAS Number:	N/A
Molecular Weight:	479.50 22.99
Molecular Formula:	C ₂₄ H ₃₁ O ₁₀ . Na
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7012-046A4
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO



Test Description	Specifications	Results
Visual Description	Off-white 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%	99.0%
Impurity (HPLC)	RT 17.82, 0.11%; RT 28.64, 0.12%; RT 36.89, 0.18%	
Residual Solvents (NMR)	No residual solvent	
Assay (qNMR)	Not less than 85.0%	88.7%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		09/02/2025
Approved by:	Quality Assurance		09/02/2025

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