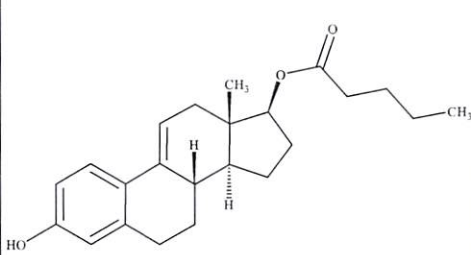


Certificate of Analysis



Certificate No.: 20251006501

Date: October 6, 2025

Retest date: October 1, 2028

Compound Name:	Estradiol Valerate EP Impurity C	
Synonyms:	(8S,13S,14S,17S)-3-hydroxy-13-methyl-7,8,12,13,14,15,16,17-octahydro-6H-cyclopenta[a]phenanthren-17-yl pentanoate	
TLC Catalogue Number:	E-0913	
CAS Number:	95959-20-9	
Alternate CAS Number:	N/A	
Molecular Weight:	354.49	
Molecular Formula:	C ₂₃ H ₃₀ O ₃	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	1548-042A3	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO	

Test Description	Specifications	Results
Visual Description	White to 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%	99.5%
Impurity (HPLC)	RT 10.87, 0.34%; RT 11.04, 0.10%	
Water Content (KF)	N/A	0.2%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.57, CH ₃ OH): +93.0°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.3%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		10/06/2025
Approved by:	Quality Assurance		10/06/2025

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