

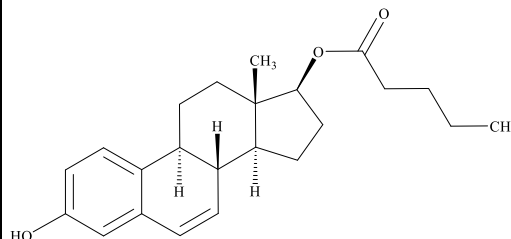
Certificate of Analysis

Certificate No.: 20211029009

Date: October 29, 2021

Retest date: October 26, 2024

Compound Name: Estradiol Valerate EP Impurity G (6-Dehydro Estradiol 17-Valerate)	
Synonyms:	(8R,9S,13S,14S,17S)-3-hydroxy-13-methyl-8,9,12,13,14,15,16,17-octahydro-11H-cyclopenta[<i>a</i>]phenanthren-17-yl pentanoate
TLC Catalogue Number:	E-0968
CAS Number:	1313382-25-0
Molecular Weight:	354.49
Molecular Formula:	C ₂₃ H ₃₀ O ₃
Source:	TLC Pharmaceutical Standards
Source Lot No.:	4783-003A3
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%	99.2%
Impurity (HPLC)	RT 7.79, 0.49%; RT 15.17, 0.11%	
Water Content (KF)	N/A	0.3%
Residual Solvents (NMR)	0.4% acetonitrile	
Assay (%)	Not less than 90.0%	98.5%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		
Approved by:	Quality Assurance		

Attachments: HPLC, IR, MS and NMR spectra.