METAPHARMACEUTICAL

N DE LOTE: 0281124

20/11/2024



CERTIFICATE OF ANALYSIS

Product Name	ESTRONE USP (Micronise	d) (CAS No. 53-16-7)	Formerly Known as Symbiolec Filanmaiab Lto.
Batch No.	ZEONy23002-M1	Mfg. Date	October - 2023
A. R. No.	P2FP24153	Refest Date	
Date of sampling	22/03/2024		September – 2026

S. No.	. Test	Result	Specification
1.0	Description	White, crystalline powder, Is odorless, and is stable in air. Melt at 259,1°C	Small, white crystals or white to creamy white crystalline powder. Is odorless, and is stable is air.
2.0	Solubility	Freely soluble in N,N-Dimethylformamide, Soluble in Tetrahydrofuran and slightly soluble in acetone	Soluble in Tetrahydrofuran and slightly soluble is
3.0	Clarity of solution	Complies .	The solution should be clear
4.0	Identification A. IR	Concordant	The IR Spectrum of sample should be concordant with the IR spectrum obtained from Estrone working standard.
	B, UV	Complies	The UV absorption spectra of the test solution and the standard solution should exhibit maxima and minima at the same wavelengths.
5.0	Specific rotation (C - I %, dioxane, at 25°C)	1161.49°	Between +158° and +165°, calculated on the dried basis.
6.0	Lose on drying (At 105° for 3 hours)	0.14 % w/w	NMT 0.5 % w/w
7.0	Residue on ignition	0.03 % w/w	NMT 0.5 % w/w
3.0	Limit of equilenin and equilin	Complies	The sample should be no more red color than that
0.0	Ordinary impurities (By TLC)	Complies .	produced by 20 µg of equilenin. Any spots other than the principal spot, in the chromatogram of the Test solution, and determine their relative intensities should not be more intense by comparison with the chromatograms of 2.0 % standard solutions.
0.0	Assay (By HPLC)	100.74 % w/w	Between 97.0 % and 103.0 % w/w, calculated on the dried basis.
.0	Additional Test Related substances by HPLC, in area %		and drive prosts.
	ADD RRT about 0.76 Impurity at RRT 1.80 Impurity at RRT 2.73 Any other impurity Total impurities	Not Detected 0.03 % 0.05 %	NMT 0.15 % NMT 0.10 % NMT 0.10 % NMT 0.30 % NMT 1.0 %

Prepared by Vishal Gupta (Manager - QC) 2910312024

Checked by Sandeep K. Tiwari (Manager – QC)

Approved by Harish Nayak (DGM - QC)

Page 1 of 2

Manufacturing Site: Plot No. 5, 6, 7 & 8 SEZ Phase - II, Pharma Zone Pithampur Dist. Dhar - 454774 (M.P.) India Telephone: +917292-667602, Fax: +91-7292-667677 Email: symbiotec@symbiotec.in



CERTIFICATE OF ANALYSIS

Formerly Known as Symbiotec Pharmalab Ltd.

Product Name	ESTRONE USP (Micronised	1) (CAS No. 53-16-7)	Formerly Known as Symbiotec Pharmalab Lio.
Batch No.	ZEONy23002-M1	Mfg. Date	October - 2023
A. R. No.	P2FP24153	Retest Date	September - 2026
Date of sampling	22/03/2024		Schember – 2020

S. No.	Test	Result	Specification
2.0	Residual Solvents (by GC) Tricthylamine Methanol Acctone 1, 2 Dimethoxyethanc Hexane	Not Detected 9 ppm 426 ppm Not Detected Not Detected	NMT 320 ppm NMT 3000 ppm NMT 5000 ppm NMT 100 ppm
3.0	Particle size Malvern (By Wet Method)	4.4 μm 6.7 μm	NMT 290 ppm 90.0 % < 10 μm 99.5 % < 20 μm

Opinion: The above material complies with the prescribed USP 43 specification. Date of Release: 29/03/2024

रामे खाखाया

Prepared by Vishal Gupta (Manager – QC) 529 1031 2024

Checked by Sandcep K. Tiwari (Manager - QC) Approved by Harish Nayak (DGM – QC)