

TECHNICAL DATA SHEET

0618-TDS-ENG-2023

17 ALFA ESTRADIOL					
DESCRIPTION DCI: ESTRADIOL 17 ALPHA		DESCRIPTION DOE: ESTRADIOL 17 ALFA			
CAS N°: 57-91-0	EC N°: 200-354-8		AEMPS CODE: 8762B		
MOL. WEIGHT: 272.40	MOL. FORMULA: C18H24O2		ARTICLE CODE: 0618		

ATTRIBUTES SHOULD BE

Appearance White or almost white powder

Solubility Soluble in alcohol and acetone, slightly soluble in ether and chloroform, insoluble in

water

Identification A Complies Identification B Complies Melting point 217 - 226 °C Optical rotation +52 / +60 Loss on drying =< 0.5 %

Related substances

Estradiol =< 0.2 % =< 0.2 % Estrone =< 0.3 % 4-methyl-17-alpha estradiol Delta 9-alpha estradiol =< 0.15 % Unspecified impurities =< 0.10 % =< 1.0 % Total impurities 97.0 - 102.0 % Assay

Residual solvents

Ethyl acetate =< 5000 ppm Ethanol =< 5000 ppm Toluene =< 890 ppm

Microbiological control

TAMC =< 1000 CFU/g TYMC =< 100 CFU/g Escherichia coli Absence/1g Candida Albicans Absence/1g Pseudomonas aeruginosa Absence/1g Staphylococcus aureus Absence/1g Salmonella Absence/10g

COMPLIES WITH

Manufacturer Specifications

STORAGE

Keep the container tightly closed in a dry, cool and well-ventilated place.

All methods are validated by the official pharmacopoeias and/or by the authorized manufacturer

17-α-Estradiol is subjected to the requirements of the ICH Q3D "Elemental Impurities" and the requirements of guides EMA/CHMP/ICH/82260/2006.

Absence of N-nitrosamines impurities has been ensured after a risk evaluation according to ICH Q9, ICH M7 and in



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accordance with guidelines EMA/428592/2019 Rev 2 and EMA/189634/2019.

Certificates of residual solvents, allergens, non-GMO and BSE-TSE, among others, are available upon request.

All methods of analysis are validated by official pharmacopoeias or are validated by internal methods of the manufacturer, which can be obtained at specific request. The above information does not exempt from the obligation to identify the product before use.