

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue E916950 Number:

13-Ethyl-18,19-dinor-17a-pregn-4-

Product: en-20-yn-17-ol (~90%)(Levo

Norgestrel Impurity)

Structure:

 H_3C Н Н Н

13-YKZ-107-1

This Product Is Stable To Be Shipping Condition: Shipped At Room Temperature CAS 32419-58-2 Number:

Synonym: (17a)-13-Ethyl-18,19-dinorpregn-4-en-20-yn-

17-ol; Levonorgestrel Impurity D (EP);

10/19/2025

Levonorgestrel EP Impurity D

Molecular Formula:

C21H30O

Molecular weight:

298.46

Source of Product:

Synthetic Solubility:

Chloroform (Slightly), Methanol (Slightly)

Purity: >90%

Storage Condition: -20°C

2. Warning

Lot

Number:

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Colourless to Off-White Waxy Solid Appearance Off-White Waxy Solid

NMR Conforms to Structure Conforms

97.66% (ELSD) **HPLC Purity** Report Result

MS Conforms to Structure Conforms

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

C of A Approved **Test Date Reviewed By Reviewed By Retest Date**

Chanell Chu

10/21/2021

Toni Rantanen

Meenakshi Sharma