

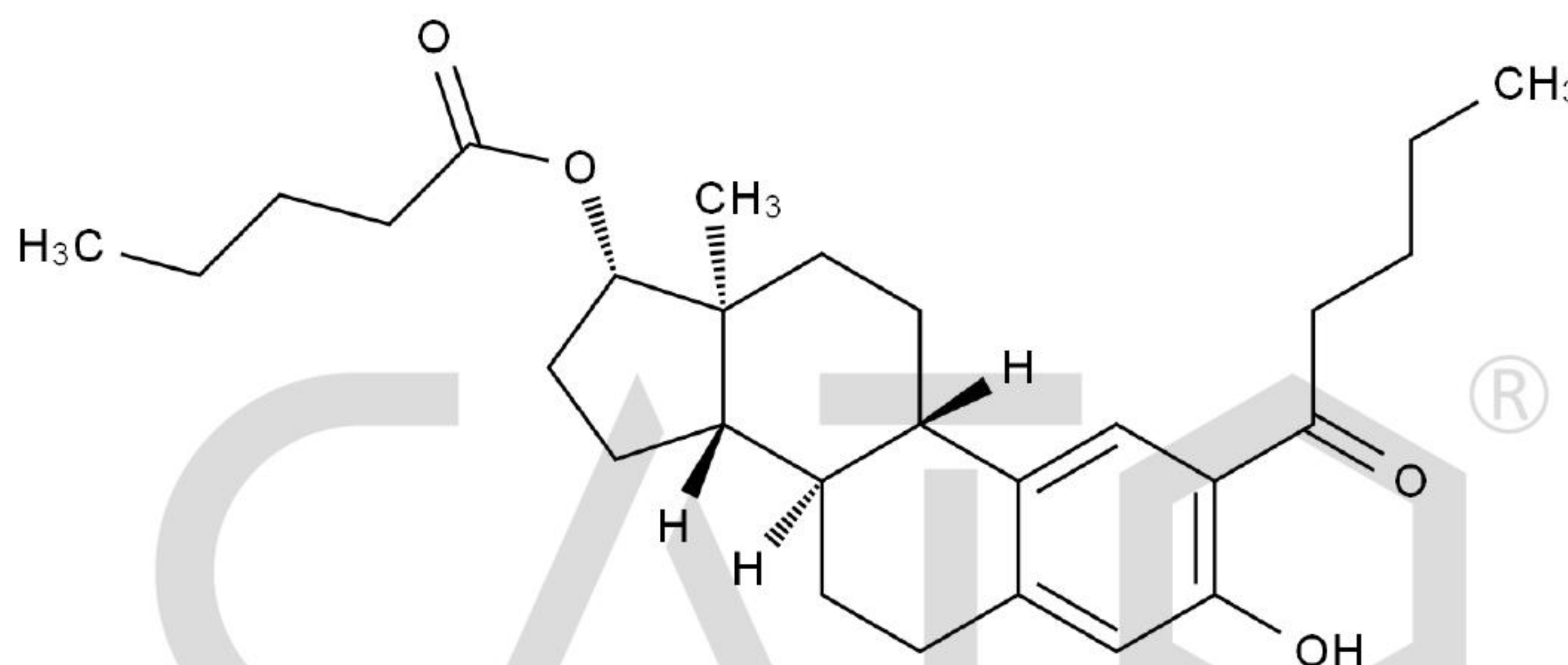
# Certificate of Analysis

## Reference Material & Standard

|                    |                                                |                   |                                           |
|--------------------|------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Estradiol Valerate EP Impurity H               | Catalogue Number: | CP115758                                  |
| Synonyms:          | N/A                                            | Lot Number:       | 1213-RF-0124                              |
| CAS Number:        | 1421283-56-8                                   | Expiry Date:      | Oct 21, 2028                              |
| Molecular Formula: | C <sub>28</sub> H <sub>40</sub> O <sub>4</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 440.61                                         | Warning:          |                                           |



Chemical Structure:



| Test Items          | Method            | Results    |
|---------------------|-------------------|------------|
| Appearance          | Visual inspection | Yellow Oil |
| Identification      | LCMS&IR&UV&HNMR   | Confirmed  |
| Purity              | HPLC              | 98.38%     |
| Residue on Ignition | TGA               | 1.14%      |
| Loss On Drying      | TGA               | 0.33%      |
| Assay               |                   | 96.9%      |

## Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Residue on Ignition - Loss On Drying) \* Purity HPLC (%) / 100%

Residue on Ignition and Loss On Drying are considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

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Date: Dec 16, 2024

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