

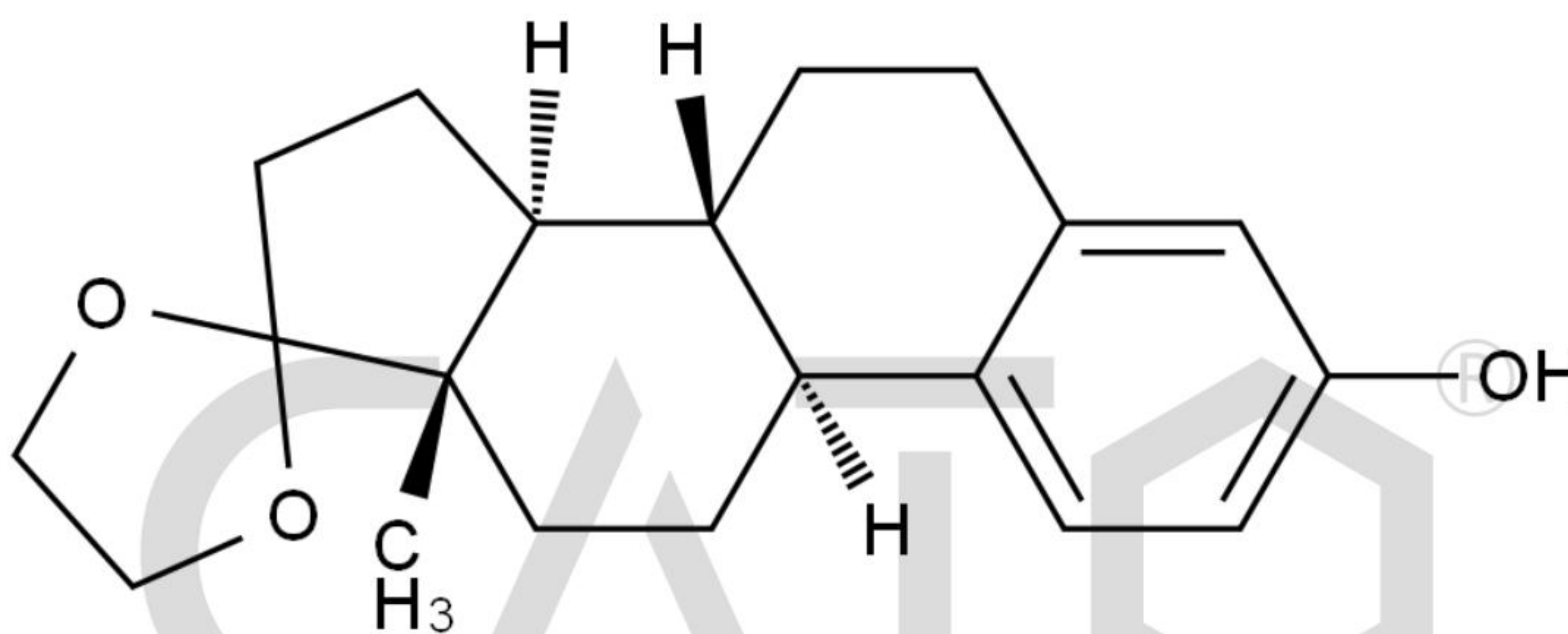
# Certificate of Analysis

## Reference Material & Standard

|                    |                                                |                   |                                           |
|--------------------|------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Estrone 17-Ethylene ketal                      | Catalogue Number: | CP151937                                  |
| Synonyms:          | N/A                                            | Lot Number:       | 0528-RG-0075                              |
| CAS Number:        | 900-83-4                                       | Expiry Date:      | May 29, 2028                              |
| Molecular Formula: | C <sub>20</sub> H <sub>26</sub> O <sub>3</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 314.42                                         | Warning:          |                                           |



Chemical Structure:



| Test Items     | Method            | Results         |
|----------------|-------------------|-----------------|
| Appearance     | Visual inspection | Off-White Solid |
| Identification | LCMS&HNMR         | Confirmed       |
| Purity         | HPLC              | 92.391%         |
| Loss On Drying | TGA               | 0.1899%         |
| Assay          |                   | 92.2%           |

## Comment:

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

$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

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Approved by General Manager:

*David*

Date: May 30, 2025

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