

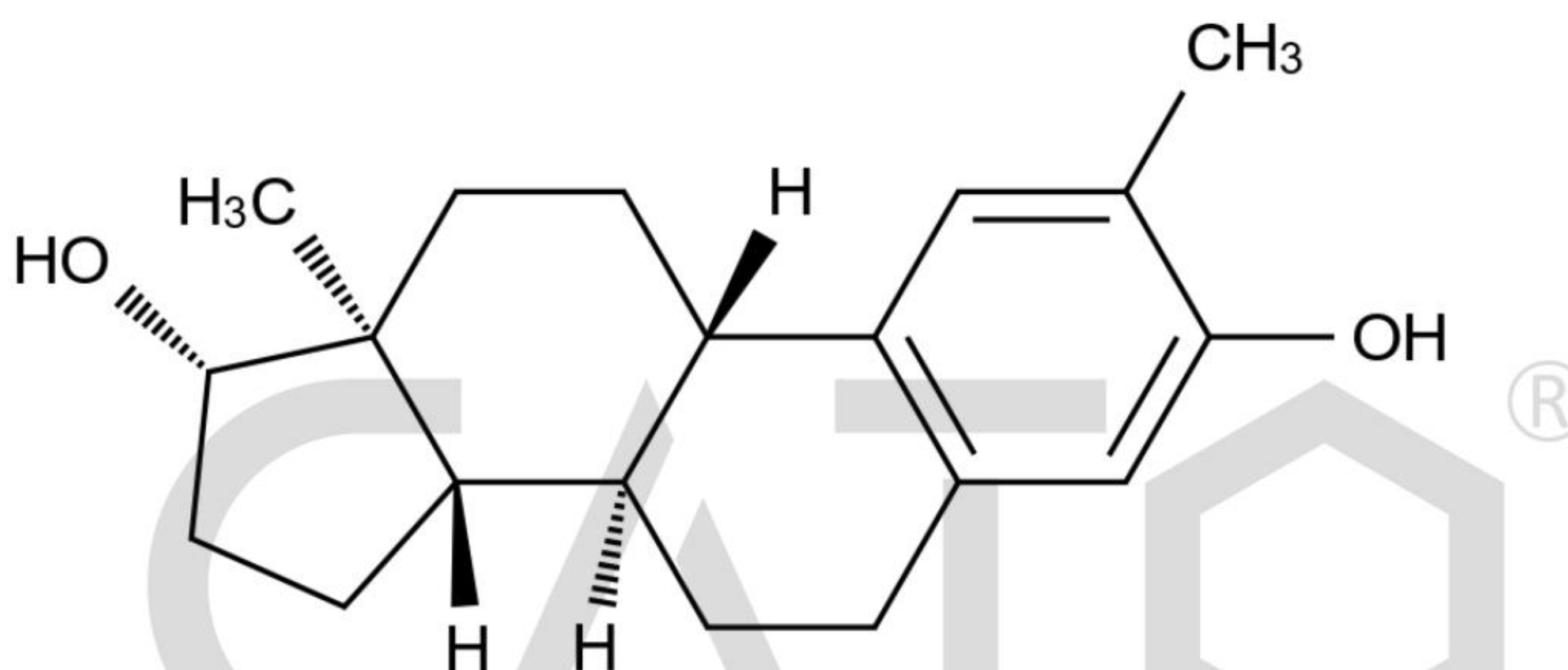
# Certificate of Analysis

## Reference Material & Standard

|                    |                             |                   |                                           |
|--------------------|-----------------------------|-------------------|-------------------------------------------|
| Product Name:      | 2-Methyl-3,17beta-Estradiol | Catalogue Number: | C1416644                                  |
| Synonyms:          | N/A                         | Lot Number:       | 1018-RF-0014                              |
| CAS Number:        | 1818-12-8                   | Expiry Date:      | Oct 11, 2027                              |
| Molecular Formula: | C19H26O2                    | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 286.41                      | Warning:          |                                           |



Chemical Structure:



| Test Items        | Method            | Results                                       |
|-------------------|-------------------|-----------------------------------------------|
| Appearance        | Visual inspection | White to Off-White Solid                      |
| Identification    | LCMS&IR&HNMR      | Confirmed                                     |
| Purity            | HPLC              | 99.1432%                                      |
| Water Content     | Karl Fischer      | 0.20%                                         |
| Residual Solvents | NMR               | Not detected in NMR                           |
| Optical Rotation  |                   | [α] <sub>D</sub> 28.0(c=0.81,dioxane): +90.8° |
| Assay             |                   | 98.9%                                         |

## Comment:

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

Assay (%) = (100% - Water Content - Residual Solvents) \* Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

Prepared by:

*Lily*

Reviewed by:

*Hinlam*

Approved by General Manager:

*David*

Date: Oct 21, 2024

Date: Oct 22, 2024

Date: Oct 22, 2024

