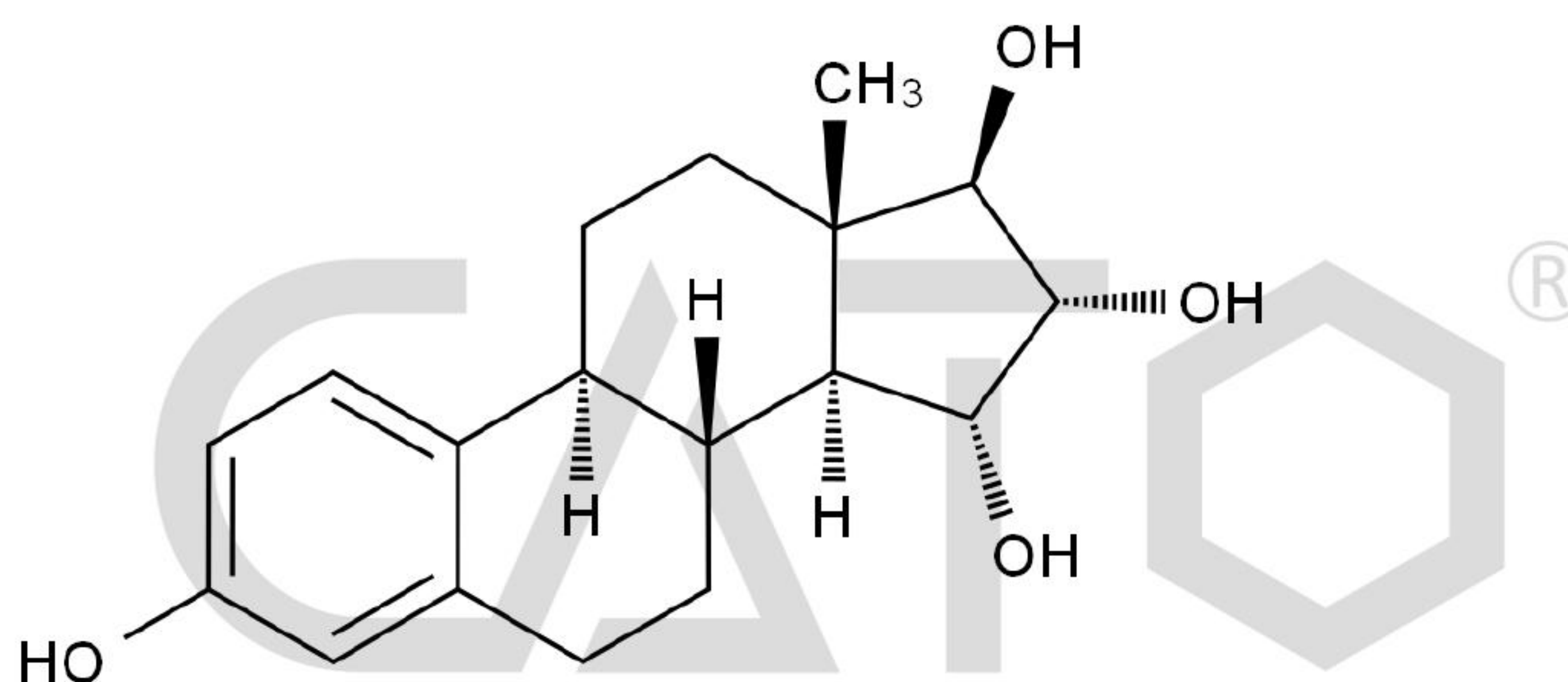


Certificate of Analysis

Reference Material & Standard

Product Name:	Estetrol	Catalogue Number:	CCAD301884
Synonyms:	N/A	Lot Number:	0712-RH-0013
CAS Number:	15183-37-6	Expiry Date:	Jul 14, 2030
Molecular Formula:	C ₁₈ H ₂₄ O ₄	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	304.38	Shipping Condition:	Shipping with Ice Packs
Solubility:	Acetonitrile	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Residue on Ignition	TGA	0.7695%
Loss on Drying	TGA	3.9944%
Assay		95.2%
Uncertainty		±0.4%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

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

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

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 15, 2026

Date: Jul 15, 2026

Date: Jul 15, 2026



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