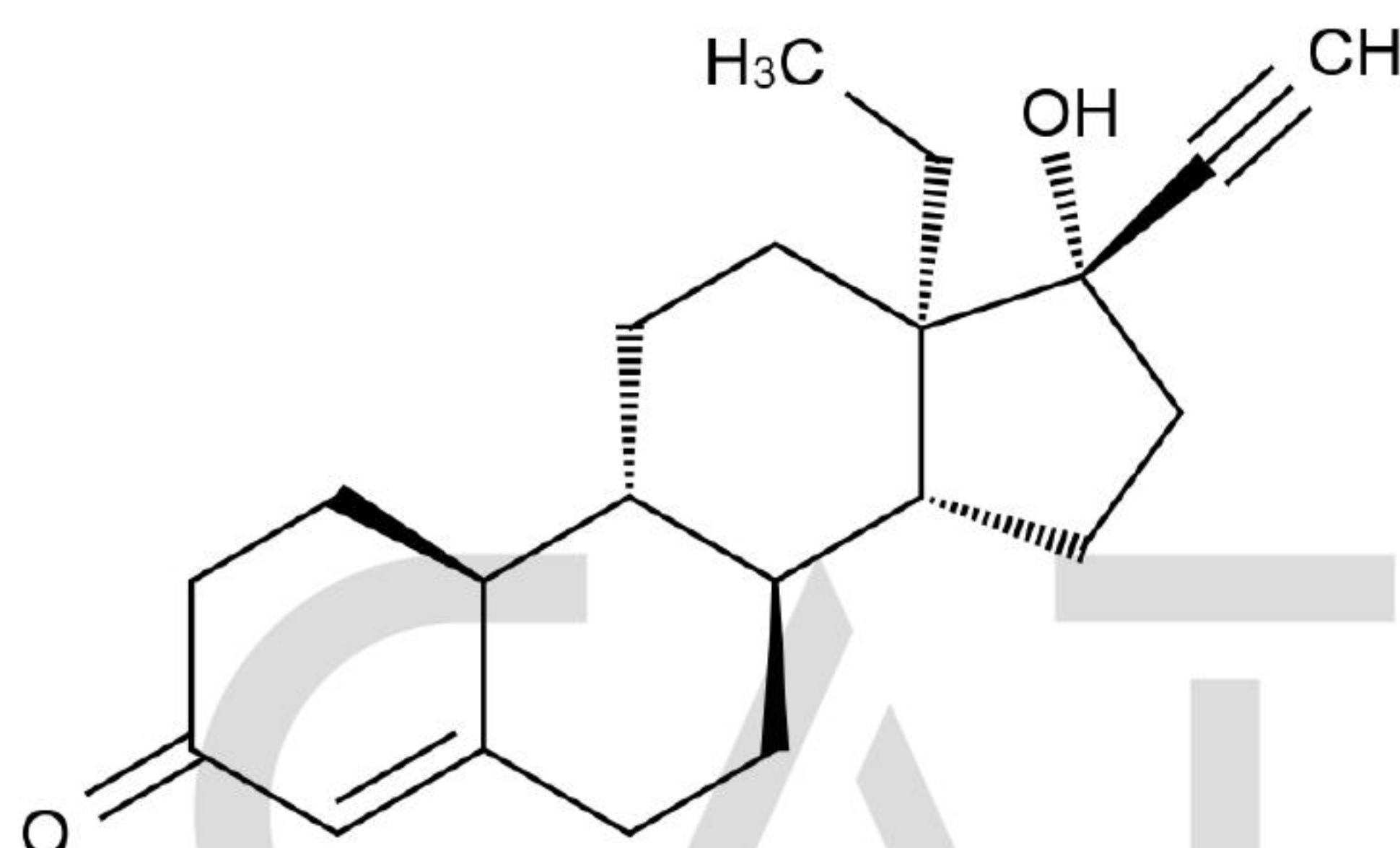


Certificate of Analysis

Reference Material & Standard

Product Name:	L(+)-Norgestrel	Catalogue Number:	C4X-167723
Synonyms:	N/A	Lot Number:	1216-RF-0086
CAS Number:	797-64-8	Expiry Date:	Nov 10, 2027
Molecular Formula:	C ₂₁ H ₂₈ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	312.45		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.8526%
Water Content	Karl Fischer	0.10%
Residual Solvents	NMR	0.7% dichloromethane
Optical Rotation		[α] _D ^{25.0} (c=0.32, CHCl ₃): +35.8°
Assay		99.1%

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:

Lisa

Approved by General Manager:

David

Date: Dec 18, 2024

Date: Dec 18, 2024

Date: Dec 18, 2024

