



CERTIFICATE OF ANALYSIS

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1. Identification

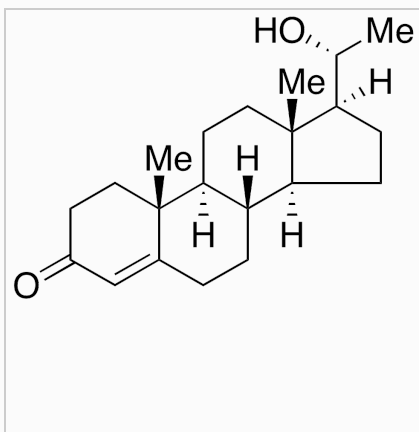
Catalogue Number: D449750

CAS Number: 145-15-3

Synonym: (20R)-20-Hydroxy-pregn-4-en-3-one; 20 β -Dihydroprogesterone; 20 β -Hydroxy- Δ^4 -pregnen-3-one; 20 β -Hydroxypregn-4-en-3-one; 20 β -Hydroxyprogesterone; 20 β -Progerol; 4-Pregnene-20 β -ol-3-one; Pregn-4-en-20 β -ol-3-one; Pregn-4-ene-20 β -hydroxy-3-one; Progesterol-20 β ; Δ^4 -Pregnen-20 β -ol-3-one; Δ^4 -Pregnene-20 β -ol-3-one; Progesterone EP Impurity C;

Product: 20b-Dihydroprogesterone

Structure:



Molecular Formula:

C₂₁H₃₂O₂

Molecular weight:

316.49

Source of Product:

Synthetic

Solubility:

Acetonitrile (Slightly),
Chloroform (Slightly),
Dichloromethane (Slightly),
Meth

Lot Number: 8-MPT-45-3

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

| Tests: | Specifications: | Results: |
|--------------------|--------------------------|------------------------------|
| Appearance | White to Off-White Solid | White to Off-White Solid |
| Water Content | Report Result | 0.3% by Karl Fischer |
| Specific Rotation | Report Result | +91.8° (c = 0.1, Chloroform) |
| NMR | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 79.85, %H: 10.87 |
| MS | Conforms to Structure | Conforms |
| HPLC Purity | Report Result | 99.58% (245 nm) |

Additional Information:

N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

| Reviewed By | Reviewed By | C of A Approved By | Test Date | Retest Date |
|---|---|---|-----------|-------------|
| Swathi Reddy | Toni Rantanen | Chanell Chu | 1/5/2022 | 1/3/2026 |
|  |  |  | | |