



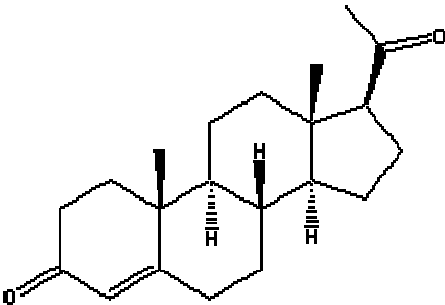
HANGZHOU DINGYAN CHEM CO.,LTD

TEL: 86-571-87157530,86465881,88025800, FAX:86-571-87156470


E-Mail:sales@dingyanchem.com,Web: www.dingyanchem.com

## CERTIFICATE OF ANALYSIS

NO: DYC041710231

Product name	Progesterone, USP39
CAS Number	57-83-0
Molecule Structure	
Molecule Formula	C <sub>21</sub> H <sub>30</sub> O <sub>2</sub>
Batch number	20171009
Manuf&Exp. Date	2017-10-09;2021-10-08
Testing date	2017-10-10

Items	Standard	Result
Appearance	White powder	White powder
Identification	A:IR B:UV	Conform
Melting range	126—131℃	128.0—129.5℃
Specific optical rotation	+175—+183°	+182.30°
Loss on drying	0.5% max	0.12%
Residual solvents		
Methanol	129ppm max	Not detected
Ethanol	2500ppm max	780 ppm
Petroleum ether	108ppm max	Not detected
Toluene	15ppm max	Not detected
Cyclohexanone	33ppm max	22 ppm
Assay	97.0—103.0%	99.15%
Micron	/	100%≦20 mesh
Conclusion	The products' quality complies with USP39.	

Hangzhou Dingyan Chem Co., Ltd.  
Quality Control  
QUALITY CONTROL:  CHECK: 姚仙娟 INSPECTOR: 刘清风

Add: Xiasha 571,19TH Street E-COMMERCE 4A601-602, Jiangnan Area, Hangzhou, China