



Certificate of analysis

Productname: Norethindrone

Cas number: 68-22-4

Molecular Formula: $C_{20}H_{26}O_2$

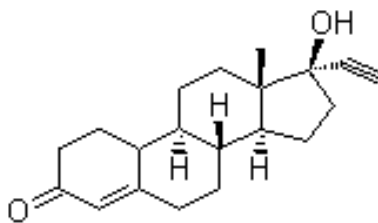
Molecular Weight: 298.42

Date of production: Dec.09,2016

Batch No:20161209

Exp Date: Dec.08,2018

Chemical structure:



Items	Specifications	Results
Appearance	White or off-white crystalline powder	Conform
Identification	Positive reaction	Conform
	IR patten consistent with the spectral set	Conform
Specific optical rotation	-32.0 ~ -37.0	-35.4
Loss on drying	NMT 0.5%	0.1%
Melting Point	202.0~208.0°C	202.5~207.5°C
Retated Substance	Any unspecified impurity NMT 0.50%	0.25%
	Total impurities NMT 2.0%	1.20%
Assay	97.0%~102.0%	98.8%

Conclusion: It complies with the CP2010 Standard.

Analyst: Zhao

Checker: Liu

Q.C Director. Fang F