Add: Economic Developed Zone of Taizhou Zhejiang China.

Tel: +86-576-88813233 Fax: +86-576-88229589

## Certificate of analysis

Product name: Ethynyl estradiol

Cas number: 57-63-6

Molecular Formula:  $C_{20}H_{24}O_2$ 

Molecular Weight: 296.41

Date of production: May. 05, 2018

Batch NO:20180505

EXP DATE: May. 04, 2020

Chemical structure:

Items	Specifications	Results
Description	White to off-white	White crystalline
	crystalline powder	powder
Identification	A infrared absorption infrared absorption	
	Spectrophotometry should be consistent	Conform
	with the reference.	
	B utraviolet absorption Absorptivitles at	
	281nm, calculated on the dried basis, do not	Conform
	differ by more than 3.0%	
	C IR Conforms to structure	Conform
Clarity of solution	Clear and free from undissolved solids	Conform
Specific Rotation	- 28.0° ~-29.5°	-28.7°
Loss on drying	NMT 1.0%	0.26%
Melting range	180~186°C	181~183℃
Residual solvents	Acetone NMT 5000ppm	364ppm
	Ethanol NMT 5000PPM	344ppm
	Tetrahydrofuran NMT 720ppm	N.D
Assay	97.0%~102.0%	99.5%
	(On the dried basis)	

Conclusion: It complies with the USP38 Standard.

Analyst:Zhao Checker:Liu Q.C Director. Fang