

# Hallochem Group



## Chongqing Waycome Pharmaceutical Co.,Ltd.

### CERTIFICATE OF ANALYSIS

Product name	17-ALFA ESTRADIOL	Batch No.	20200103
Manuf. Date	2020-01-21	Expiry Date	2023-01-20
Batch Quantity	3Kgs	Test Standard	Factory standard

TEST	SPECIFICATIONS	RESULTS
Description	A white or almost white powder	white powder
Appearance of solution	Clear and colorless	Complies
Solubility	Soluble in alcohol, acetone; slightly sol in ether chloroform; insol in water	Complies
Identification	A. IR	Complies
Specific rotation	+52° ~ + 60°	+56.5°
Melting point	217- 226℃	221-223℃
Water	≤3.5%	0.31%
Related substances	The sum of impurities ≤1.0% Single impurity ≤0.2%	0.18% 0.06%
Residual solvents	Ethyl acetate ≤5000ppm Toluene ≤890ppm	200ppm 80ppm
Assay	99.0 %min	99.90%

**Storage:** Closed keep in cool,dry and dark place ;keep from heat and strong light

**Conclusion:** The product complies with the requirements of Factory standard

Quality Manager:



Rechecker:



Analyst:



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