

CERTIFICATE OF ANALYSIS

Product Name:	17α-Estradiol		
Batch No.	202305002	CAS No.	57-91-0
Manufacturing Date	May 17, 2023	Expiry Date	May 16, 2026
Reference Standard	Enterprise Standard	Quantity	2kg
Analytical Results			
Items	Specifications		Results
Appearance	White or off-white crystalline powder		Conforms
Solubility	Soluble in ethyl alcohol, acetone, slight sol in ether, chloroform, insoluble in water.		Conforms
Identification	A: IR		Conforms
Specific rotation	+51°~+56°		+52.1°
Melting point	223.0 ~ 229.0°C		223.1-223.8°C
Loss on drying	≤3.0%		0.05%
Related substances	Any individual impurity ≤0.2%		0.16%
	Total impurities ≤1.0%		0.76%
Residual solvents	Ethyl acetate ≤5000ppm		102ppm
	Ethyl alcohol ≤5000ppm		58ppm
Particle size	100%≤20 μ m		100%≤20 μ m
Assay	97.0~ 103.0%		99.50%
Conclusion	Conform the above standards.		

Inspector: Carlifor Wu

Verifier: Jack He

