

# Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB2493	
Compound name	17 α-Estradiol	
Chemical name	(17α)-Estra-1,3,5(10)-triene-3,17-diol	
Batch number	E1591-1-1	
Batch molecular formula	C <sub>18</sub> H <sub>24</sub> O <sub>2</sub> ·0.2H <sub>2</sub> O	
Batch molecular weight	275.99	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
NMR	<sup>1</sup> H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis shows molecular ion	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in DMSO (100 mM) and in ethanol (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

25-06-21

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.