

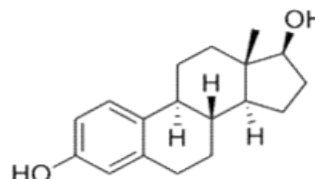
Certificate of Analysis



Product Identification

Catalog number HB2494
Compound name 17-beta-estradiol
Chemical name (8R,9S,13S,14S,17S)-13-methyl-6,7,8,9,11,12,14,15,16,17-decahydrocyclopenta[a]phenanthrene-3,17-diol
Batch number E0590-1-1
Batch molecular formula C₁₈H₂₄O₂·0.6H₂O
Batch molecular weight 283.00

Chemical Structure



Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 98.7%
NMR	¹ H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 10% MeOH/DCM shows one spot under uv	Meets specification: R _f =0.60
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in DMSO (100 mM) and in ethanol (75 mM)	Meets specification

Biological validation

Produced by Richard Patterson

Signature

Passed by Huw Davies

Signature

Date

25-04-17

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