

3050 Spruce Street, Saint Louis, MO 63103, USA

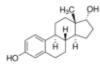
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

α-Estradiol - powder, ≥98% (TLC)

Product Name:

**Product Number:** E8750 Batch Number: 039M4115V Brand: SIGMA CAS Number: 57-91-0 Formula: C18H24O2 Formula Weight: 272,38 g/mol Quality Release Date: 03 MAR 2019 Recommended Retest Date: MAR 2022



Test	Specification	Result
Appearance (Form)	Pow der	Pow der
Appearance (Colour)	White to White w/ Yellow Cast	White
Solubility (Solvent)	Ethanol	Ethanol
Solubility (Conc)	49.00 - 51.00 mg/ml	50.00 mg/ml
Solubility (Heating)	Yes	Yes
Solubility (Turbidity)	Clear	Clear
Solubility (Color)	Colorless	Colorless
Water (by Karl Fischer)	≥ 0.00 %	0.17 %
Elemental Anal. (%C anhydrous)	78.87 - 79.87 %	79.11 %
NMR (Solvent)	DMSO-d6	DMSO-d6
Identity by NMR	Consistent	Consistent with Control
Purity (TLC)	≥ 98.00 %	99.00 %
Purity (HPLC)	≥ 98.00 %	100.00 %
Specific Rotation (Solvent)	Ethanol	Ethanol
Specific Rotation (Alpha D)	52.00 - 56.00 deg	53.30 deg
UV (Solvent)	Ethanol	Ethanol
UV (EmM at Lambda max)	1.80 - 2.20	1.97

-Theo Ackermany

Theo Ackermann PhD MScEng CQM Manager, Quality and Regulatory Affairs Jerusalem, Israel IL

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Version Number: 1 Page 1 of 1