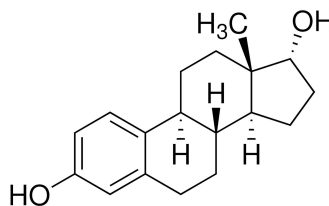


# Certificate of Analysis

**Product Name :**  $\alpha$ -Estradiol powder,  $\geq 98\%$  (TLC)  
**Product Number :** E8750-100MG  
**Batch Number :** 0000213869  
**Source Batch :** 0000204165  
**CAS Number :** 57-91-0  
**Molecular Formula :**  $C_{18}H_{24}O_2$   
**Formula Weight :** 272.38  
**Recommended Retest Date :** Nov 2025  
**Quality Release Date :** 27 Dec 2022



Test	Specification	Result
Appearance (Form)	Powder	Powder
Appearance (Color)	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)	$\geq 0.00\%$	0.75 %
NMR (Solvent)	DMSO-d6	DMSO-d6
Identity by NMR	Consistent	Consistent with Control
Purity (TLC)	$\geq 98.00\%$	98.90 %
Purity (HPLC)	$\geq 98.00\%$	99.33 %
Specific Rotation (Solvent)	Ethanol	Ethanol
Specific Rotation (Alpha D)	52.00 - 56.00 deg	54.17 deg
UV (Solvent)	Ethanol	Ethanol
UV (EmM at Lambda max)	1.80 - 2.20	1.84

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](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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**Product** E8750-100MG  
**Batch** 0000213869



Anna Bendersky, Quality Control Manager  
Quality Control  
Israel  
IL

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