

# Certificate of Analysis

**Product Name :** (Z)-4-Hydroxytamoxifen ≥98% Z isomer  
**Product Number :** H7904-25MG-PW  
**Batch Number :** 0000100308  
 Source Batch : 0000092070  
 CAS Number : 68047-06-3  
 Storage Temperature : Cooler/Refrigerated  
 Molecular Formula : C<sub>26</sub>H<sub>29</sub>NO<sub>2</sub>  
 Formula Weight : 387.51  
 Recommended Retest Date : Jun 2023  
 Quality Release Date : 28 Jun 2020

Test	Specification	Result
Appearance (Form)	Powder	Powder
Appearance (Color)	White to White w/ Yellow Cast	White
Solubility (Solvent)	Ethanol	Ethanol
Solubility (Conc)	19.60 - 20.40 mg/ml	19.99 mg/ml
Solubility (Heating)	Yes	Yes
Solubility (Turbidity)	Clear	Clear
Solubility (Color)	Colorless to Faint Yellow	Colorless
Water (by Karl Fischer)	≥ 0.00 %	0.21 %
Elemental Anal. (%C Anhydrous)	79.37 - 81.79 %	80.28 %
Elemental Anal. (%N Anhydrous)	3.11 - 4.11 %	3.44 %
Purity (TLC)	≥ 98.00 %	98.00 %
Purity (HPLC)	≥ 98.00 %	99.56 %
NMR (Solvent)	CD3OD	CD3OD
Identity by NMR	Consistent With Z Isomer	Consistent With Z Isomer
NMR (Residual Solvent 1)	Diethylether	Diethylether
NMR (% Solvent 1)	≤ 3.00 %	0.00 %
NMR (Residual Solvent 2)	Ethanol	Ethanol
NMR (% Solvent 2)	≤ 3.00 %	0.00 %
NMR (Total % Resid.Solvents)	≤ 3.00 %	0.00 %

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





Anna Bendersky, Quality Control Manager

Quality Control

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](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

Version Number: 01 Doc: 1047611

Page 2 of 2

