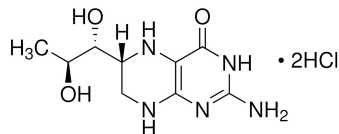


Certificate of Analysis

Product Name : (6R)-5,6,7,8-Tetrahydrobiopterin dihydrochloride
Product Number : T4425-5MG
Batch Number : 0000469924
Source Batch : 0000285181
CAS Number : 69056-38-8
MDL Number : MFCD00891665
Storage Temperature : -20°C
Molecular Formula : C₉H₁₅N₅O₃ · 2HCl
Formula Weight : 314.17 g/mol
Recommended Retest Date : Nov 2026
Quality Release Date : 06 Mar 2024



Test	Specification	Result
Appearance (Form)	Powder	Powder
Appearance (Color)	White to White w/ Yellow Cast	White
Solubility (Solvent)	Oxygen Free Water	Oxygen Free Water
Solubility (Conc)	19.6 - 20.4 mg/mL	19.9 mg/mL
Solubility (Turbidity)	Clear to Slightly Hazy	Clear
Solubility (Color)	Colorless to Faint Yellow	Colorless
NMR (Solvent)	DCI 1N	DCI 1N
Identity by NMR	Consistent	Consistent with Control
NMR (Residual Solvent 1)	Ethanol	Ethanol
NMR (% Solvent 1)	≤ 1.00 %	0.00 %
Purity (HPLC)	≥ 98.00 %	99.52 %
Handling Precautions	Hygroscopic	Hygroscopic

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. 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 T4425-5MG
Batch 0000469924



Anna Bendersky, Quality Control Manager
Quality Control
Israel
IL

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