

Certificate of Analysis

Product Name : DAPI for nucleic acid staining
Product Number : D9542-50MG-PW
Batch Number : 0000081269
Source Batch : 13190123
CAS Number : 28718-90-3
Storage Temperature : Cooler/Refrigerated
Molecular Formula : $C_{16}H_{15}N_5 \cdot 2HCl$
Formula Weight : 350.25
Recommended Retest Date : Feb 2022
Quality Release Date : 17 Feb 2019

Test	Specification	Result
Appearance (Form)	Powder	Powder
Appearance (Colour)	Yellow	Yellow
Solubility (Solvent)	Water	Water
Solubility (Conc)	19.60 - 20.40 mg/ml	20.00 mg/ml
Solubility (Heating)	Yes or No	Yes
Solubility (Turbidity)	Clear	Clear
Solubility (Color)	Yellow	Yellow
Water (by Karl Fischer)	≤ 8.00 %	1.96 %
Elemental Anal. (%C anhydrous)	53.50 - 56.20 %	54.24 %
Elemental Anal. (%N anhydrous)	19.50 - 20.50 %	19.69 %
NMR (Solvent)	D2O	D2O
Identity by NMR	Consistent	Consistent with Control
NMR (Residual Solvent 1)	Acetone	Acetone
NMR (% Solvent 1)	≤ 1.00 %	0.22 %
Purity (TLC)	≥ 98.0 %	98.5 %
Purity (HPLC)	≥ 98.0 %	99.2 %



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. 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 1041839

Page 1 of 1

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com

