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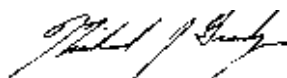
Certificate of Analysis

Product Name:

Silver nanoplates – abs., 650 nm (resonant), 0.02 mg/mL (in water with 5 mM sodium borate buffer), PVP functionalized

Product Number: 796484
Batch Number: MKBZ7470V
Brand: ALDRICH
Storage Temperature: Store at 2 - 8 °C
Quality Release Date: 05 JUL 2016
Date Retested: 03 APR 2018
Recommended Retest Date: APR 2019

Test	Specification	Result
Appearance (Color) Solution maybe purple, blue, teal, or blue-green	Conforms to Requirements	Blue
Appearance (Form)	Liquid	Liquid
Wavelength Report Result		664 nm
ICP Major Analysis Confirms Silver Component	Confirmed	Confirmed
Concentration Mass (Ag)(Report Result)		0.021 mg/ml
Diameter (TEM)		46 nm
Standard Deviation		9 nm
pH Report Result		9.3
Miscellaneous Supplier Data Particle Surface: PVP	Confirmed	Confirmed
Recommended Retest Period 12 month	-----	-----



Michael Grady, Manager
 Quality Control
 Milwaukee, WI US

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.