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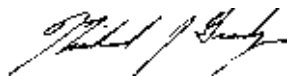
Certificate of Analysis

Product Name:

PbS core-type quantum dots - oleic acid coated, fluorescence λ_{em} 1000 nm, 10 mg/mL in toluene

Product Number: 747017
Batch Number: MKBZ3401V
Brand: ALDRICH
Formula: PbS
Storage Temperature: Store at 2 - 8 °C
Quality Release Date: 24 MAY 2016
Expiration Date: MAY 2017

Test	Specification	Result
Appearance (Color)	Black	Black
Appearance (Form)	Liquid	Liquid
Concentration 10mg/ml in Toluene	Confirmed	Confirmed
Diameter Specification: Report Result		3.3 nm
Absorption Max Specification: Report Result		896 nm
Emission Wavelength	975 - 1025 nm	990 nm
Full Width Half Max (FWHM)	≤ 180 nm	175 nm
Miscellaneous Assay Calculated band gap (eV)		1.38
Product of Supplier CENTER FOR APPLIED NANOTECHNOLOGY	Confirmed	Confirmed
Expiration Date Period 1 year	-----	-----



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.