

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaldrich.com](http://www.sigmaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Product Specification

Product Name:

PbS core-type quantum dots - oleic acid coated, fluorescence  $\lambda_{em}$  1400 nm, 10 mg/mL in toluene**Product Number:** 747076

Formula: PbS

Storage Temperature: 2 - 8 °C

TEST	Specification
Appearance (Color)	Black
Appearance (Form)	Liquid
Concentration	Confirmed
10mg/ml in Toluene	
Diameter	
Specification: Report Result	
Absorption Max	
Specification: Report Result	
Emission Wavelength	1375 - 1425 nm
Full Width Half Max (FWHM)	≤ 220 nm
Miscellaneous Assay	
Calculated band gap (eV)	
Registered Trademark	Confirmed
CANdot is a registered trademark of Fraunhofer CAN	
Expiration Date Period	-----
1 year	

Specification: PRD.0.ZQ5.10000098063

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. 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.