

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  $\lambda_{em}$  1200 nm, 10 mg/mL in toluene**Product Number:** 747025

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                                | 1175 - 1225 nm |
| Full Width Half Max (FWHM)                         | ≤ 200 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.ZQ5.10000098303

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.