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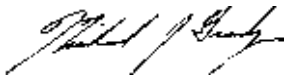
Certificate of Analysis

Product Name:

Iron oxide (II,III), nanoparticles - 15 nm avg. part. size (TEM), amine functionalized, 1 mg/mL in H₂O

Product Number: 900199
Batch Number: MKCD5509
Brand: ALDRICH
Formula Weight: 231.53 g/mol
Storage Temperature: Store at 2 - 8 °C
Quality Release Date: 31 JUL 2017
Recommended Retest Date: JUL 2018

Test	Specification	Result
Appearance (Clarity) Absence of Precipitation	Confirmed	Confirmed
Appearance (Color)	Brown to Very Dark Brown	Brown
Appearance (Form)	Liquid	Liquid
ICP Major Analysis Confirms Iron Component	Confirmed	Confirmed
Solvent 10nM PBS Buffer, pH 7.4	Confirmed	Confirmed
Size 15nm +/- 2.5nm (TEM)	Confirmed	Confirmed
Concentration 1 mg/mL	Confirmed	Confirmed
Product of Supplier Ocean Nanotech, LLC	Confirmed	Confirmed
Recommended Retest 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.