

200 nm Magnetic Gold Nanoshells, Carboxyl, 10 OD, BioReady™

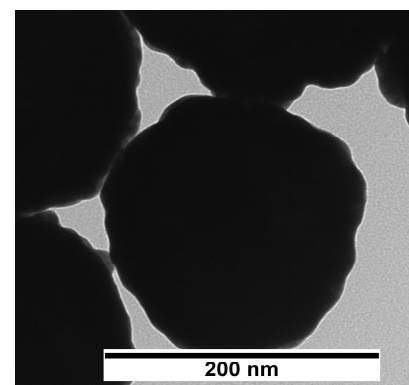
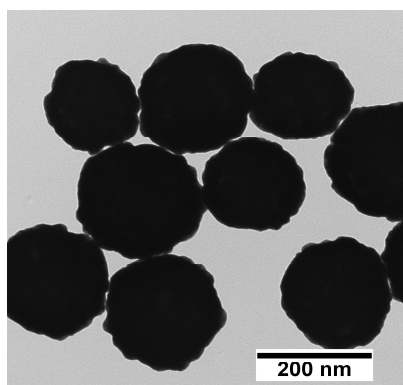
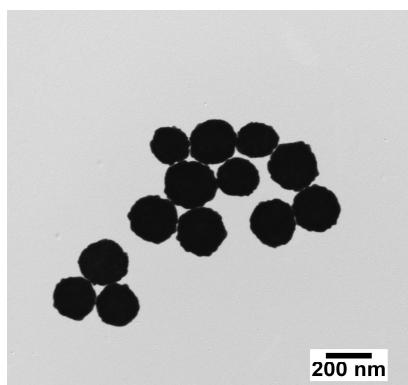
Product Number: MSXR200

Lot Number: SLD0340

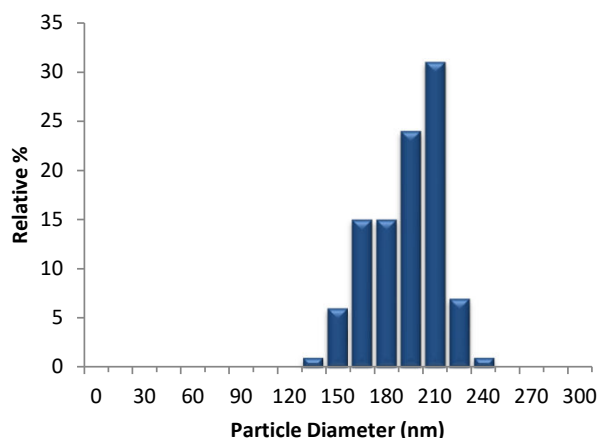
v1

	Specification	Value	Unit
Diameter (TEM*):	185-225	200	nm
Coefficient of Variation*:	≤ 15%	10.4	%
Particle Concentration (Calc'd)*:	Report	1.3E+10	particles/mL
Molar Particle Concentration:	Report	2.2E-11	particle # (mol/L)
Calc'd Surface Area (Initial):	Report	1.6E+15	nm ² /mL
Mass Concentration (Au):	Report	0.56	mg/mL
Mass Concentration (Fe ₃ O ₄):	Report	0.089	mg/mL

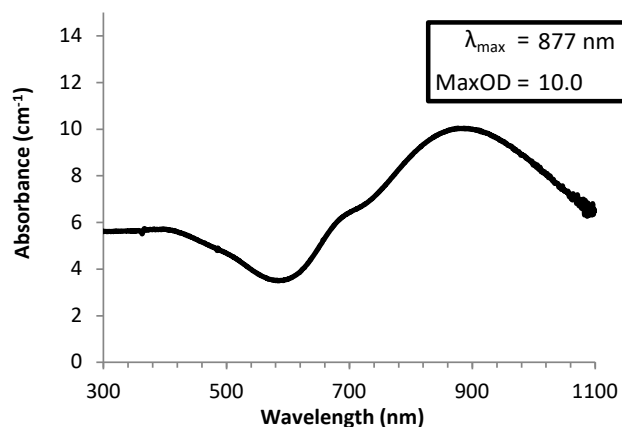
	Specification	Value	Unit
Hydrodynamic Diameter (DLS)	Report	219	nm
Zeta Potential:	< -40 mV	-54	mV
Max OD**:	9.8 - 10.2	10.0	n/a
pH:	Report	6.9	n/a
Particle Surface:	Report	Carboxyl (-COOH)	
Solvent:	Report	Aqueous 0.02 mM Potassium Carbonate	



Size Distribution



Optical Properties



Characterization Instrumentation

Diameter and Size Statistics:

JEOL 1010 Transmission Electron Microscope; ImageJ

Mass Concentration:

Agilent 7800 ICP-MS

Spectral Properties:

Agilent 8453 UV-Visible Spectrometer

Hydrodynamic Diameter/Zeta Potential:

Malvern Zetasizer Nano ZS

pH:

Mettler Toledo - SevenCompact S220

Shipping and storage: 2-8 °C. DO NOT FREEZE.

** OD at time of initial QC testing is reported.**

Use by one year from date of receipt.