

Product datasheet

40nm Gold Nanoparticles (15 OD) ab269931

[3 Images](#)

Overview

Product name	40nm Gold Nanoparticles (15 OD)
General notes	<p>40nm Gold Nanoparticles (15 OD) (ab269931) is an aqueous suspension of spherical metallic nanoparticles manufactured to the highest standard to ensure:</p> <ul style="list-style-type: none">Uniform spherical shapeNarrow size distribution: 40nm \pm 4nm, <10% CVUltra high qualityBatch to batch consistencyHigh efficiency antibody binding for maximum sensitivityAvailable at high concentrations to simplify assay development. <p>This product is manufactured by Expedeon, an Abcam company. It was previously called 40nm Gold Nanoparticles (15 OD). Expedeon product code 212-0010 is the same as the 10 mL size of this product and code 212-0100 is the same as the 100 mL size.</p> <p>Our colloidal Gold Nanoparticles are suspended in citrate buffer and are suitable for:</p> <ul style="list-style-type: none">Protein adsorptionOligonucleotide adsorptionSurface modifications. <p>Narrow size distribution and consistent shape is important and preferable for most applications.</p> <p>A consistent, spherical shape means that particles are less prone to aggregation, which can be a problem associated with gold nanoparticles. Furthermore uniform shape ensures consistent binding of antibodies, ensuring reliable assay results.</p> <p>Each batch of 40nm colloidal gold undergoes TEM analysis to ensure all the requirements are met.</p> <ul style="list-style-type: none">Mean diameter 36–44nmSD <4nmCV% <10%

Properties

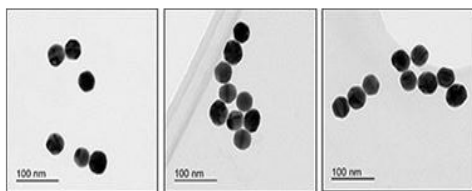
Form	Liquid
Storage instructions	Shipped at Room Temperature. Store at +4°C. Do Not Freeze.

Storage buffer

pH: 7.00

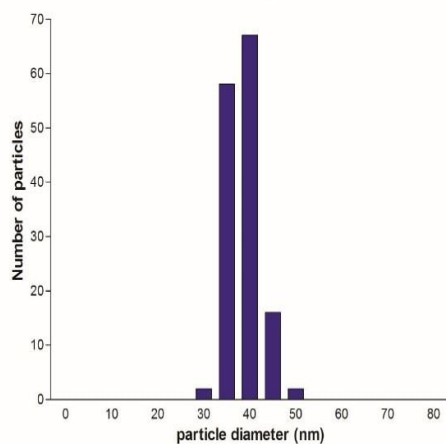
Constituent: 0.08745% Gold nanoparticles

Images



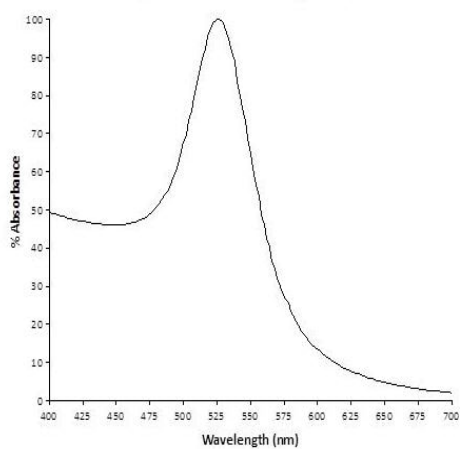
Electron microscopy (TEM) images of 40nm Gold Nanoparticles (15 OD) (ab269931). Note the consistency of size and shape.

Electron Microscopy - 40nm Gold Nanoparticles (15 OD) (ab269931)



Size distribution of 40nm Gold Nanoparticles (15 OD) (ab269931) displaying a narrow size distribution with a CV (standard deviation / diameter) of less than 10%.

Functional Studies - 40nm Gold Nanoparticles (15 OD) (ab269931)



UV-Vis spectrum of 40nm Gold Nanoparticles (15 OD) (ab269931).

Spectrum - 40nm Gold Nanoparticles (15 OD) (ab269931)

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