

PRODUCT DATA SHEET

30nm Au50Ag50 Alloy Nanoparticles

Catalog Numbers: GSA-30-20, GSA-30-50, GSA-30-100, GSA-30-250

Description

Cytodiagnostics Gold/Silver Alloy Nanoparticles are produced through laser ablation of bulk gold and silver in a pure solvent (H_2O). This results in ultra-pure Au/Ag alloy nanoparticles devoid of any contaminants. Further, these particles do not have any stabilizing molecules on the surface (e.g. citrate).

For custom sizes, formulations or bulk quantities please contact our customer service department.

Features

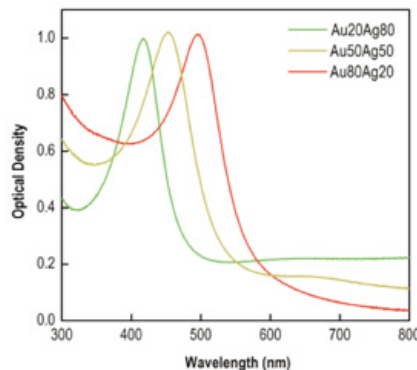
- Improved stability over standard silver nanoparticles while still maintaining localized surface plasmon resonance (LSPR) characteristics in the 400-500nm range.
- No stabilizing surface ligands.
- Ultra pure

Applications

- Ideal for applications that requires nanoparticles without any surface modification.
- Nanotoxicology

Characteristics

Core diameter: 30nm (+/- 5nm)
 Composition (percentage): Au50Ag50
 Surface ligand: none
 Concentration: OD=1 (~ 0.05 mg/ml)
 Particles per mL: $\sim 1.79E+11$
 Absorbance (λ_{max}): 453nm
 Zeta Potential: <-30 mV
 Supplied in H_2O



Protein Conjugation

Conjugation of proteins to Cytodiagnostics alloy nanoparticles can be performed through passive adsorption to the particle surface similar to that of standard gold nanoparticles. Please refer to tech note "Adsorption of Proteins to Gold Nanoparticles", which can be found online at www.cytodiagnostics.com in the Technical Reference Section.

Storage

This product should be stored at 4°C. DO NOT FREEZE. If stored unopened and as specified, Cytodiagnostics alloy nanoparticles are stable for at least 6 months.

Handling

When stored for a long period of time alloy nanoparticles may sediment at the bottom of the flask. Prior to use, re-suspend the sedimented particles by swirling until a homogenous solution is obtained.

To maintain optimal performance, and stability of the colloidal alloy nanoparticles, care should be taken to use clean storage containers if using other than supplied with the product.

Product Safety

This product is for R&D use only, not for drug, household, or other uses. Please review the material safety datasheet (MSDS) available online for proper safety and handling procedures.



Ordering Information

For ordering call 866-344-3954 or visit us online at www.cytodiagnostics.com

Catalog Number	Description	Volume
GSA-30-20	30nm Au50Ag50 Alloy Nanoparticles	20ml
GSA-30-50	30nm Au50Ag50 Alloy Nanoparticles	50ml
GSA-30-100	30nm Au50Ag50 Alloy Nanoparticles	100ml
GSA-30-250	30nm Au50Ag50 Alloy Nanoparticles	250ml