



DRDO Certified Product  
DRDO Certified Supplier

# Gold Dispersion

(Covid19 Testing)

Stock No: NS6130-10-1507



DRDO List of Industry partners for production  
of Equipment for Combating of COVID19



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# Gold Dispersion

## (Covid19 Testing)

Gold Dispersions are suspensions of gold nanoparticles in water or organic solvents such as isopropanol or ethanol. Gold Nanodispersions (AuNPs) are widely supported to guide an impressive resurgence in biomedical and diagnostic applications. AuNPs are suitable for numerous bio sensing functions and applications. Their unique photonic, electric, and catalytic properties, coupled with the molecular interaction specificity of various biomolecules (e.g., antibodies, single-stranded, DNA, and RNA aptamers, among others), represent the design principles of a

wide range of virus detection systems. Goldnanodispersions are playing an important role as a catalyst for COVID 19 testing kits to fight against COVID 19. Other applications of gold nanoparticle dispersion have been found to have in various fields such as are excellent carrier molecules for drug delivery. They can be synthesized in wide range of size with diverse surface functionalities. Tunability in size and surface characteristics makes them promising candidates as drug delivery vehicles, signal enhancers in SERS-based enzyme immunoassay and antimicrobial agents.

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### Quick FACTS

Product	: Gold Dispersion (Covid19 Testing)
Stock No	: NS6130-10-1507
CAS	: 1344-28-1
Color	: Liquid Brown/Light Red
Foam	: Liquid



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# Applications


- ✓ Gold Dispersion (Covid19 Testing)
- ✓ carrier molecules for drug delivery
- ✓ Bio sensing functions and applications

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# Chemical Composition

Product	Weight Percent (nominal)	
	Au	Other Metal
Gold Dispersion (Covid19 Testing)	99.9 %	1000 ppm

## Additional Powder Characteristics

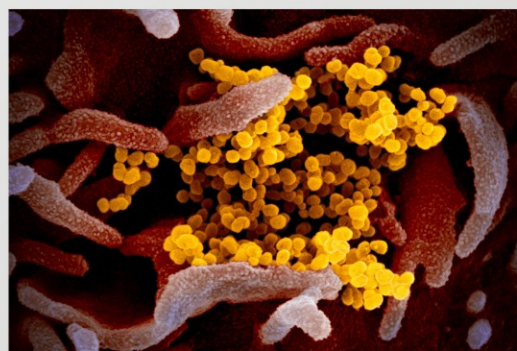
Stock No.	Bacterial Filtration Efficiency	APS
NS6130-10-1507	99.9%	40nm

## Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
Au	196.97g/mol	1.25 g/cm <sup>3</sup>	>1064 °C	2700 °C

## Ordering Information and Stock Availability

- ✓ Product: Gold Dispersion (Covid19 Testing)
- ✓ Stock Availability: Available
- ✓ Distribution: Global
- ✓ Packing Sizes: 25ml, 50ml, 100ml, 500ml & Bulk Orders



### Handling Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisture pickup.

### Safety Recommendations

Download MSDS/SDS NS6130-10-1507 are available from the Nanoshel Website at <https://www.nanoshel.com/product>

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