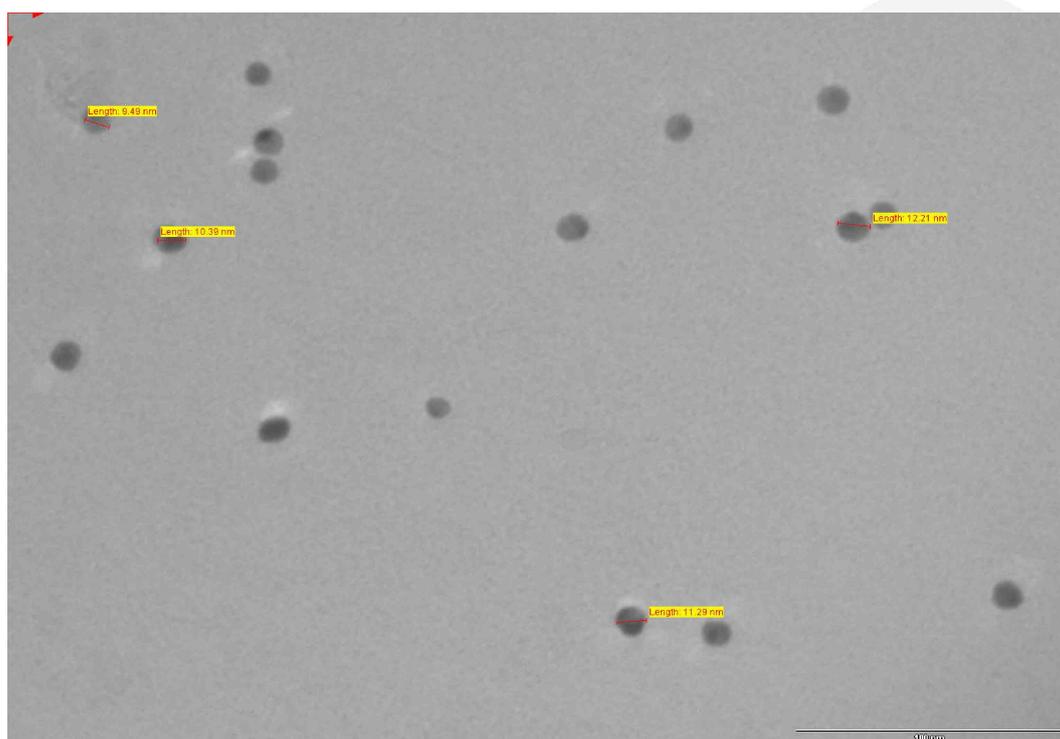


We... AUTUS LAB are making [AUTUS-GOLD](#) (Gold Nanoparticles) in wide range of different nano size like 20 nm, 40 nm, 60 nm, with 1, 2, 5 & 10 Optical Density. We are producing best quality colloidal gold on a large scale for industrial purpose at competitive price.

TECHNICAL PARAMETERS OF AUTUS-GOLD

Name of Product	Colloidal gold
Claimed Diameter	20 nm
Storage Buffer	Suspended in H ₂ O, no preservative or Residual chemical.
Storage Instructions	Store at 2-8 °C – DO NOT FREEZE
Technical Data	
Analyzed Mean Diameter	20.2nm (DLS)
Coefficient of Variation	<5%
Optical Density @ 520nm	1.06
Gold Chloride Concentration	0.01% (W/V)
No. of Particles per ml	7.00×10^{11}
No. Moles Particle per ml	1.1624×10^{-12}
Molar Particle Concentration (No. moles per L)	1.1624×10^{-09}
Mass of gold per ml (g)	5.66×10^{-05}



Gold nanoparticles or Colloidal gold was being used in paintings by artists in ancient time due to the various colors produced by their interaction with visible light. But now a days, this optoelectrical property of colloidal gold is being used vastly such as conjugation of antibodies/antigen in biomedical field, electronic conductor, drug delivery etc. The color and electronic property of gold nanoparticles are depends on its shape and size.

Applications Area of **AUTUS-GOLD** :

Gold nanoparticles have so many applications in real world; some of major applications are as below:

1. **Diagnostics** - Gold nanoparticles are being used in conjugation of various antigens and antibodies in lateral flow assays.
2. **Therapy**: Specific sizes of gold nanoparticles absorb the specific wavelength of infrared light and get heated to a certain temperature. Coating of these gold nanoparticles to infected cell can kill the tumour cells and patient could be cured without any side effect of drug dosages.
3. **Probes**: biological imaging applications and transmission electron microscopy.
4. **Electronics** – Printable inks for the chip design.

