



Borhan Nano Scale Innovators Knowledge-Based Co.

Silver (Ag) Nanoparticles

Introduction

Silver nanoparticles are widely used in numerous technologies due to their unique optical, electrical, thermal and antibacterial properties.

Specifications

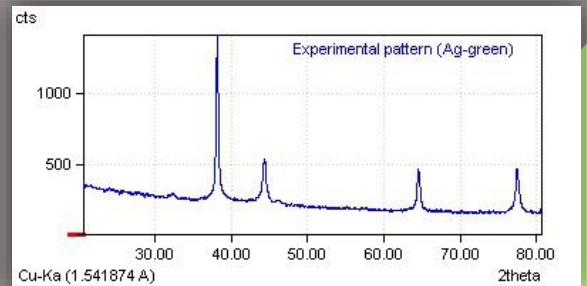
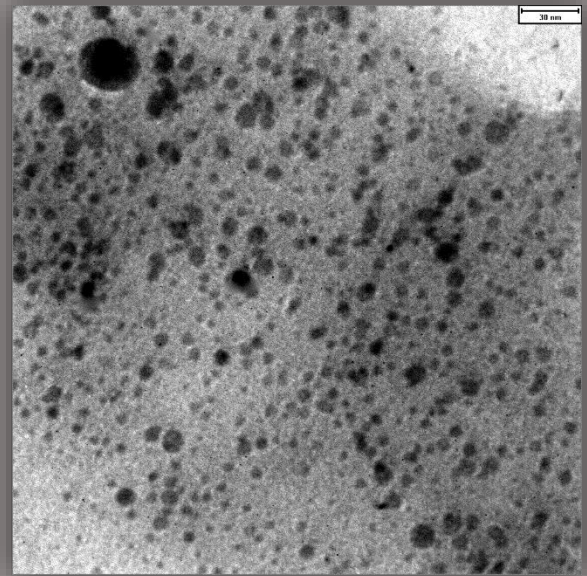
Molecular formula	Ag
Molecular weight	107.8682
Morphology	Spherical
Color	Dark green
Size (nm)	Less than 20
Form	Nanopowder
CAS No.	7440-22-4

Applications

- Antimicrobial coatings
- Biomedical devices
- Wound dressings
- Biological and chemical sensors
- Photovoltaics
- Conductive inks, pastes and fillers
- Molecular diagnostics and photonic devices
- Textiles and footwear
- Keyboards
- Water Treatment
- Paints
- Cosmetics
- Plastics
- Appliances

Advantages

- Environmentally friendly
- Highly stable
- Heat resistant
- Non-irritating and non-allergenic
- Anti-fungal and anti-inflammatory effects
- No causing of antimicrobial resistance
- High electrical conductivity
- Low sintering temperatures



Sample	Strains	
	E.Coli (ATCC® 25922™)	
Ag	MIC	MBC
	125 µg/ml	500 µg/ml



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