

Silla coated Silver Nanoparticles

DESCRIPTION

Silver nanoparticles have unique optical, electronic, and antibacterial properties, and are widely used in areas such as biosensing, photonics, electronics, and antimicrobial applications. Beijing Biotyscience Co. Ltd provides high-quality spherical Silver nanoparticles of different sizes.

Silica is a versatile coating that has wide applicability for many applications. Silica coatings are an amorphous network of silicon and oxygen that encapsulate the particle with a coating that can be many nanometers thick. In addition, the porosity of the silica surface can be modified by the addition of various templating molecules which can subsequently be removed, giving rise to pores.

Silica shelled particles have good salt stability and are one of the best coatings to preserve the optical properties of metal nanoparticles when integrated into composites and coatings, acting as an insulating steric layer that prevents the surface plasmons of particles from interacting with other particles even when the particles themselves may be in physical contact.

PRODUCT INFORMATION

Type	Silver Nanoparticles
Diameter	20 nm - 100 nm
Surface	Silla
Concentration	0.05 mg/ml (or others)
Size	10 ml
Storage	Stored at 2 - 8°C. Do not freeze. Protect from light.
Shelf life	6 months

Applications

Biodiagnostic and nanomedicine applications

Photothermal applications

Color applications

Controlled aggregation

Surface Charge

Advantages

Dispersive in a wide range of solvents with a high degree of stability.

Retain optical properties of the core metal nanoparticles.

Can be dried down and redispersed without agglomeration.

Allows particle surfaces to be modified.

Allows engineering of controlled aggregates.

Storage

Store product away from direct sunlight at 2-8 ° C.

Do NOT freeze. Freezing causes irreversible aggregation of the silver nanoparticles.

When stored as specified the product is stable for at least six months.

Contact Us

Beijing Biotyscience Co. Ltd.

QQ: 499854788

3494243873

WeChat: 13681256816; 15511114213

Email: info@biotyscience.com

Tel: 400-669-8850

15511114213; 13681256816