

Carbon Nanoparticles

Description

Carbon nanoparticles (CNPs) have the characteristics of deep coloration and high contrast, so they can be used as markers for lateral flow immunochromatography technology, potentially improving sensitivity.

Commonly used preparation methods of colloidal carbon mainly include solvothermal method, chemical vapor deposition method (CVD method) and template method. However, these microspheres have poor uniformity, high equipment requirements, and poor controllability, making them difficult to scale up for production.

Beijing Biotyscience Co. Ltd uses a special process to realize the preparation of colloidal carbon under normal pressure and reaction temperature below 100°C. The particle size and surface functional groups can be controlled. The particle size CV is controlled within 5% and the production capacity is high.

Product Information

Type	Carbon Nanoparticles
Diameter	200 nm; 300 nm; 400 nm
Functional group	-COOH
CV	<5%
Buffer	Supplied in DI Water.
Concentration	10 mg/ml (or others)

Size	10 ml, 100 ml
Storage	Stored at 2 - 8°C. Do not freeze.
Shelf life	12 months

Storage

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

Do NOT freeze.

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

Advantages

Deep color rendering, high contrast, and higher sensitivity than colloidal gold

Stable in nature, no toxic or side effects, and environmentally friendly

Low raw material cost

No interference with whole blood samples

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