



Enhanced Time Resolved Fluorescent Particles PRODUCT DATA SHEET

Enhanced Time Resolved Fluorescent Particles

Description

Ultra-high-throughput screening, chip-based technologies, multitarget detection systems, and diagnostic screening are rapidly growing areas, and an ongoing trend is to miniaturize these assay formats. In microarray and microspot techniques, spatial resolution of individual reactive sites on a chip becomes extremely important. At the same time, improved labeling and detection technologies are required to analyze smaller sample volumes and to measure sample on a limited solid-phase area. The use of intense fluorescence labels with high specific activity and low nonspecific signal is a prerequisite before optimal miniaturization can be accomplished. Time-resolved fluoroimmunoassays were introduced in the early 1980s. The high specific activity and very low background signals provided by the temporal separation of the long-lived emission signals have enabled detection of analytes with superior sensitivity. Time-resolved fluorescent microspheres are nanoparticles containing rare earth elements (Eu), which have the characteristics of long fluorescence life, large Stokes shift and stable properties. The high-signal time-resolved fluorescent microspheres are particularly suitable for the development of ultra-sensitive immunochromatography products, multi-analysis dna chip analysis, and histochemistry and cytochemistry. Compared with ordinary time-resolved fluorescent microspheres, they have higher signal strength and sensitivity, which can meet the requirements of trace detection of tested objects and achieve accurate detection.

Abvigen Inc. offers a wide range of fluorescent particles, including Enhanced Time Resolved Fluorescent Particles. The product can be further flexibly adjusted according to customer requirements and use conditions to achieve customized supply.

For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: www.abvigen.com **Phone:** +1 929-202-3014 **Email:** info@abvigenus.com



Characteristics

Concentration: 10 mg/ml

Size: 10 ml

Particle size: 300 nm

Type: Enhanced Time Resolved Fluorescent Particles

Luminescent substance: Eu^{3+}

Surface: COOH

Excitation: 360 nm

Emission: 615 nm

Storage condition: Stored at 2 - 8°C.

Quality guarantee period: 12 months

Storage

This product should be stored away from light at 4°C. **DO NOT FREEZE.**

Highlights

Easy operation: Short detection time, can be used for field detection

High sensitivity: Higher signal strength, greater signal-to-noise ratio

Quantitative detection: According to the built-in standard curve, the specific concentration of the object to be measured can be given

Strong anti-interference: Rare earth ion marker, long half-life, Stokes displacement

Ordering Information

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