

# Luminescent/Phosphorescent Nanoparticles

## Product Data Sheet

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### Product Description:

Our featured luminescent nanoparticles are frequently used in diagnostic applications, flow studies, and immunoassays. These luminescent particles have excitation/emission wavelengths of 388nm/648nm, and display a long decay phosphorescent response.

Background interference can severely compromise the sensitivity of fluorescence-based immunoassays. One solution to this problem is to use phosphorescence.

While fluorescent dyes typically have decay times of nanoseconds, our phosphorescent nanoparticles may emit signals lasting up to milliseconds. Since background fluorescence decays much more rapidly than phosphorescence, it can be eliminated with time-resolved fluorescent (TRF) measurement.

### Characteristics:

Size Range: 40nm – 300nm

Density: 1.0-1.2 g/ml

#### Packaging Information:

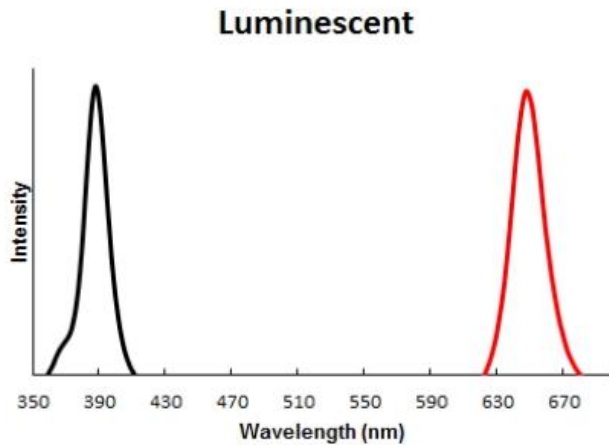
40nm luminescent nanoparticles are supplied as 0.5% solid suspension (5mg/ml)

All other luminescent nanoparticles are supplied as 1% solid suspensions (10mg/ml).

#### Suspension Solution:

De-ionized water containing a small amount of surfactant and 2mM of sodium azide as an anti-microbial agent.

## Spectrum:



## Product Stability, Storage and Specifications:

This product should be stored at 2-8°C. Do not freeze!

## Product Use:

Sonicate/Vortex the microspheres before each use.

These products are for research and manufacturing use only and are not intended for use in humans, therapeutic or diagnostic purposes. Sales are without any seller's warranty or representation, expressed or implied, by usage or otherwise; no claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims must be made within 30 days following date of delivery.