

This certificate is an example. A complete certificate containing lot-specific information, such as concentration and volume, will be shipped with your purchase.

## PD-Pt1 carboxylated (Phosphorescent Nanoparticles)

**Catalog No:** 15930, 16930

**Lot No:** Not Available

### Chemical Properties:

Contents: 5 ml (Cat # 15930) or 10 ml (Cat # 16930) aqueous suspension of PD-Pt1 carboxylated, 0.5 % (w/w) in 10 mM MOPS, pH 7, 15 mM sodium azide

### Fluorescent Properties:

PD-Particles are based on a novel polymer, which form lattices similar to polystyrene, but with a highly reduced oxygen permeability. Therefore the decay time and the intensity of the incorporated dye-molecules are nearly independent of the oxygen concentration in the sample. In addition the polymer protects the dye from other environmental effects. The particles are smaller than 100 nm, their surface is carboxylated.

PD-Nanoparticles are "loaded" with the Platinum-porphyrin dye, showing a large Stoke's shift of 257 nm. The excellent shielding of the dye against quenchers like oxygen leads to particles with well defined luminescent decay times:

Excitation max: 391, 505 and 540 nm

Emission max: 648 nm

Decay-time t: 75  $\mu$ s

Delivery-Form: 0.5 % (w/w) in buffer

### Quality Control:

The particles have been quality tested by spectro-photometrical evaluation and by determining the solid residue after lyophilization.

### Storage:

To ensure stability, the aqueous suspension should be stored at 4°C in the dark.

Caution: Do not dry or freeze; do not use more than 5% organic solvent. This product is guaranteed for 12 months from the date of arrival.

