

Technical Data Sheet  
Upconversion Nanoparticles (UCNP)  
Properties

**Form** : Suspension  
**Full Name** : Upconversion nanoparticles  
**Product Number**: 900556

**Preparation**: Thermal Decomposition  
**Particle Size** : <25 nm  
**Structure** : Hexagonal

**Product Description**

Erbium-doped NaYF<sub>4</sub> nanoparticles, fluorescence  $\lambda_{em}$  540 nm

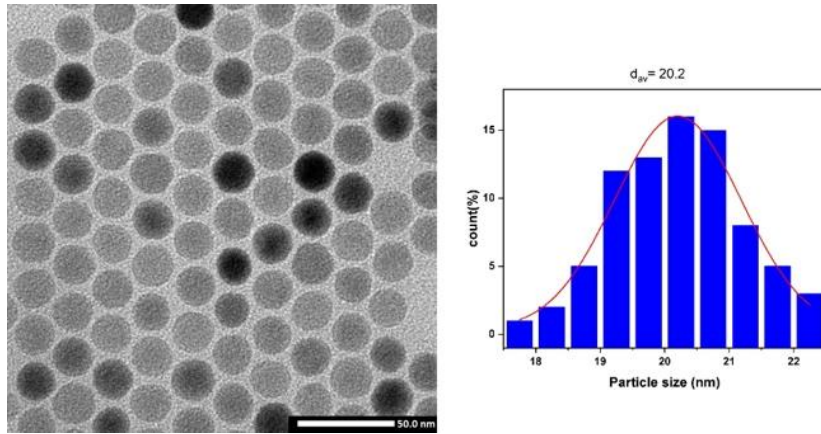
**Application areas:**

Imaging, drug-delivery, biosensors, solar cells, in vitro diagnosis, biology, chemistry.

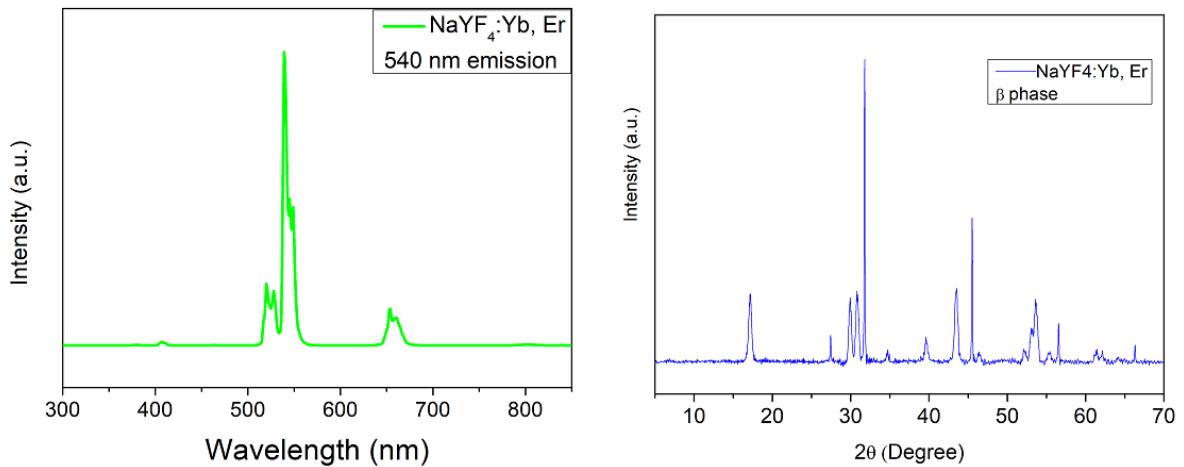
**Storage conditions**: +4 °C in Cyclohexane

**Packaging** : 5 mg, 10 mg, 50 mg (5mg/ml)

**Quality Control**



Particle size distribution and TEM images of NaYF<sub>4</sub>:Yb,Er nanoparticles



Photoluminescence and XRD analysis of NaYF<sub>4</sub>:Yb, Er