**Product Information – nano-screenMAG-DEAE**

Product: nano-screenMAG-DEAE  
Article Number: 4402-1 (1 ml); 4402-5 (5 ml)  
Description: Aqueous dispersion of magnetic fluorescent nanoparticles  
Application: Weak anion exchanger  
Weight of Volume: 25 mg/ml  
Lot:  
Production Date:  
Core: Magnetite  
Matrix: Starch  
Size (hydrodynamic diameter): 100 nm 150 nm 200 nm  
Number of Particles: \( \sim 1.8 \times 10^{15}/g \) \( \sim 5.2 \times 10^{14}/g \) \( \sim 2.2 \times 10^{14}/g \)  
Density: \( \sim 1.25 \text{ g/cm}^3 \)  
Type of Magnetization: Superparamagnetic  
Functional Group: DEAE – diethylamine ethyl  
nano-screenMAG/ Fluorescence Color:  
B blue G green O orange P pink R red  
Excitation: 378 nm 476 nm 524 nm 547 nm 578 nm  
Emission: 413 nm 490 nm 539 nm 581 nm 613 nm  
Autoclaved: Yes  
Storage Buffer: ddH2O  
Storage: At 4 – 8 °C. Do not freeze! PROTECT FROM LIGHT!  
Expiry date: Two years after production date

**NOTE:** The fluorescence of the nano-screenMAG particles is only detectable on the same side where the excitation takes place.  
Please note that there is a difference in fluorescence observation between dissolved fluorescence molecules and solid fluorescence particles.  
Fluorescence spectrophotometer with a fluorescence detection unit with an angle of 90° to the excitation source will detect no or only weak fluorescence signals.