## Product Information – nano-screenMAG-Streptavidin

**Product:** nano-screenMAG-Streptavidin  
**Article Number:** 4505-1 (1 ml); 4505-5 (5 ml)  
**Description:** Aqueous dispersion of magnetic fluorescent nanoparticles  
**Application:** For purification or separation of biotinylated biomolecules, including antigens, antibodies or nucleic acids from different sources such as blood, sera, tissues and food.  
**Weight of Volume:** 10 mg/ml  
**Lot:**  
**Production Date:**  
**Core:** Magnetite  
**Matrix:** Starch  
**Size (hydrodynamic diameter):** 100 nm, 150 nm, 200 nm  
**Number of Particles:** ~ 1.8 x 10^{15}/g, ~ 5.2 x 10^{14}/g, ~ 2.2 x 10^{14}/g  
**Density:** ~ 1.25 g/cm³  
**Type of Magnetization:** Superparamagnetic  
**Functional Group:** Streptavidin  
**Binding Capacity:** 80 pmol/mg biotinylated protein, 150 pmol/mg biotinylated oligonucleotide  
**nano-screenMAG/Fluorescence Color:**  
- Blue (B)  
- Green (G)  
- Orange (O)  
- Pink (P)  
- Red (R)  
**Excitation:** 378 nm, 476 nm, 524 nm, 547 nm, 578 nm  
**Emission:** 413 nm, 490 nm, 539 nm, 581 nm, 613 nm  
**Storage Buffer:** PBS, 0.05 % sodium azide  
**Autooclaved:** No  
**Storage:** At 4 – 8 °C. **Do not freeze!** PROTECT FROM LIGHT!  
**Expiry date:** One year 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.