**Product Information – nano-screenMAG-Gelatin**

**Product:** nano-screenMAG-Gelatin

**Article Number:** 4507-1 (1 ml); 4507-5 (5 ml)

**Description:** Aqueous dispersion of magnetic fluorescent nanoparticles

**Application:** For purification or binding of fibronectin

**Weight of Volume:** 10 mg/ml (standard 10 mg/ml)

**Lot:**

**Production Date:**

**Core:** Magnetite

**Matrix:** Gelatin

**Size (hydrodynamic diameter):** 100 nm, 150 nm, 200 nm

**Number of Particles:** ~ $1.8 \times 10^{15}$/g, ~ $5.2 \times 10^{14}$/g, ~ $2.2 \times 10^{14}$/g

**Density:** ~ 1.25 g/cm$^3$

**Type of Magnetization:** Superparamagnetic

**Functional Group:** Gelatin

**nano-screenMAG/Fluorescence Color:**
- **B** blue: 378 nm
- **G** green: 476 nm
- **O** orange: 524 nm
- **P** pink: 547 nm
- **R** red: 578 nm

**Excitation:** 413 nm

**Emission:** 490 nm, 539 nm, 581 nm, 613 nm

**Storage Buffer:** Sterile water (ddH$_2$O)

**Autoclaved:** Yes

**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.