**Product Information – screenMAG-Biotin**

**Product:** screenMAG-Biotin (Magnetic Fluorescent Beads)

**Article Number:**
- 2201-1 (1 ml)
- 2201-5 (5 ml)

**Description:**
Aqueous dispersion of magnetic fluorescent silica particles

**Application:**
For binding of avidin or streptavidin labeled molecules

**Lot Number:**

**Production Date:**

**Weight of Volume:** 10 mg/ml

**Core:** Maghemite

**Matrix:** Silica, non-porous

**Size (hydrodynamic diameter):** 1.0 µm

**Number of Particles:** $1.8 \times 10^{12}$/g

**Surface Area:** ~50 m²/g

**Density:** ~2.25 g/cm³

**Type of Magnetization:** Superparamagnetic

**Functional Group:** Biotin

**screenMAG/Fluorescence Color:**
- B blue: Excitation 400 nm, Emission 420 nm
- G green: Excitation 502 nm, Emission 525 nm
- O orange: Excitation 526 nm, Emission 555 nm
- OP orange: Excitation 536 nm, Emission 617 nm
- RR red: Excitation 540 nm, Emission 625 nm
- R red: Excitation 536 nm, Emission 672 nm

**Autoclaved:** No

**Storage Buffer / Solution:** ddH₂O, 0.05 % sodium azide

**Storage:** At 4 – 8 °C. Do not freeze! PROTECT FROM LIGHT!

**Expiry Date:** Six months after production date.

**Note:**
For complete resuspension vortex thoroughly!

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**NOTE:** The fluorescence of the 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.