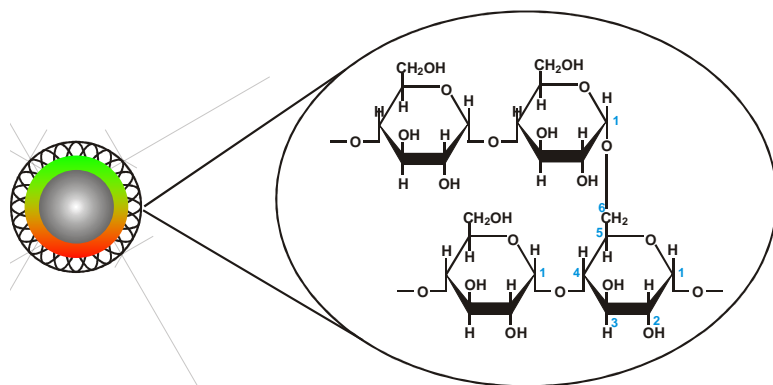

Product Information – nano-screenMAG-D

Product:	nano-screenMAG-D				
Article Number:	4401-1 (1 ml); 4401-5 (5 ml)				
Description:	Aqueous dispersion of magnetic fluorescent nanoparticles				
Application:	For MRI diagnostic and for covalent coupling of biologands, see protocol: A9				
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:	~ 1.8 x 10 ¹⁵ /g	~ 5.2 x 10 ¹⁴ /g	~ 2.2 x 10 ¹⁴ /g		
Density:	~ 1.25 g/cm ³				
Type of Magnetization:	Superparamagnetic				
Functional Group:	Hydroxyl groups				
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:	ddH ₂ O				
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.