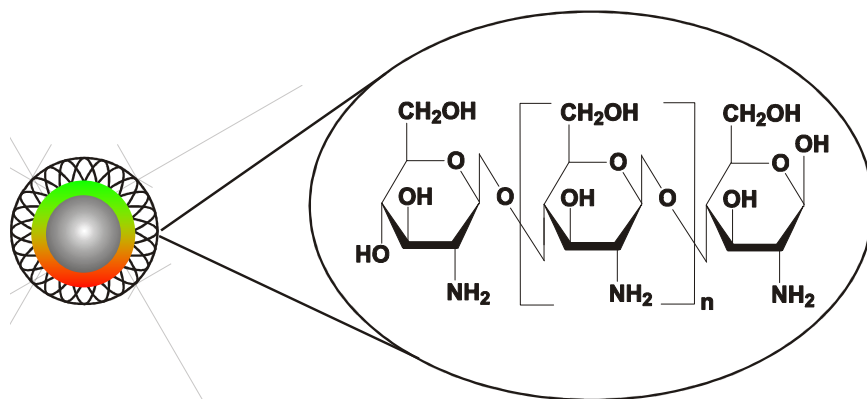

Product Information – nano-screenMAG-Chitosan

Product:	nano-screenMAG-Chitosan				
Article Number:	4418-1 (1 ml); 4418-5 (5 ml)				
Description:	Aqueous dispersion of magnetic fluorescent nanoparticles				
Application:	For separation of nucleic acids, proteins				
Weight of Volume:	25 mg/ml				
Lot:					
Production Date:					
Core:	Magnetite				
Matrix:	Polysaccharide, linear randomly distributed β -(1-4)-linked D-glucosamine and N-acetyl-D-glucosamine				
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:	Amine group (-NH ₂)				
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
Storage Buffer:	ddH ₂ O				
Autoclaved:	Yes				
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.