

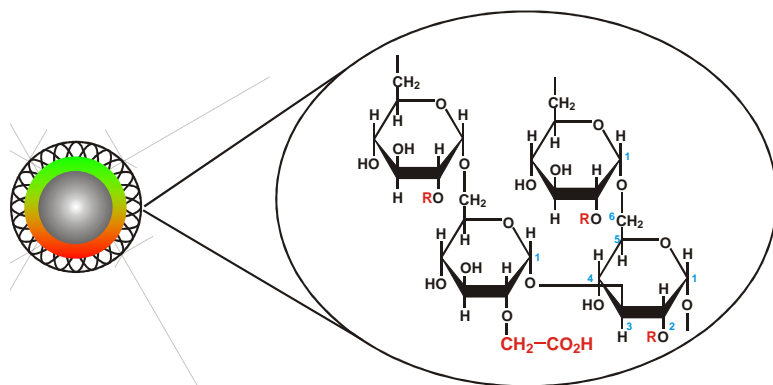
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**Product Information – nano-screenMAG-CMX**

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Product:	<b>nano-screenMAG-CMX</b>				
Article Number:	4406-1 (1 ml); 4406-5 (5 ml)				
Description:	Aqueous dispersion of magnetic fluorescent nanoparticles				
Application:	Weak cation exchanger; for covalent coupling of biomolecules; see protocol A11				
Weight of Volume:	25 mg/ml				
Lot:					
Production Date:					
Core:	Magnetite				
Matrix:	Carboxymethyl-dextran, sodium				
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:	Sodium carboxylate , $-\text{COO}^- \text{Na}^+$				
nano-screenMAG/ Fluorescence Color:	<b>B</b> blue	<b>G</b> green	<b>O</b> orange	<b>P</b> pink	<b>R</b> 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 <sub>2</sub> O				
Storage:	At 4 – 8 °C. <b>Do not freeze! PROTECT FROM LIGHT!</b>				
Expiry date:	Two years after production date				

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**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.