

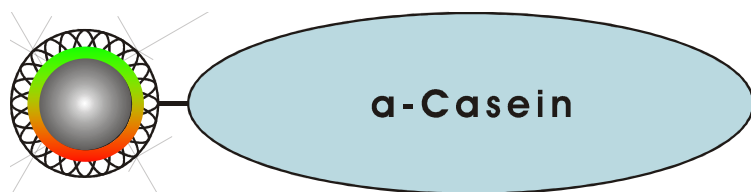
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**Product Information – nano-screenMAG-Casein**

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Product:	<b>nano-screenMAG-Casein</b>				
Article Number:	4506-1 (1 ml); 4506-5 (5 ml)				
Description:	Aqueous dispersion of magnetic fluorescent nanoparticles				
Application:	For purification or binding of enzymes				
Weight of Volume:	10 mg/ml				
Lot:					
Production Date:					
Core:	Magnetite				
Matrix:	Casein, Sodium				
Size (hydrodynamic diameter):	100 nm	150 nm	200 nm		
Number of Particles:	~ 1.8 x 10 <sup>15</sup> /g	~ 5.2 x 10 <sup>14</sup> /g	~ 2.2 x 10 <sup>14</sup> /g		
Density:	~ 1.25 g/cm <sup>3</sup>				
Type of Magnetization:	Superparamagnetic				
Functional Group:	α-Casein				
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
Storage Buffer:	Sterile water (ddH <sub>2</sub> O)				
Autoclaved:	Yes				
Storage:	At 4 – 8 °C. <b>Do not freeze!</b> <b>PROTECT FROM LIGHT!</b>				
Expiry date:	One year 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.