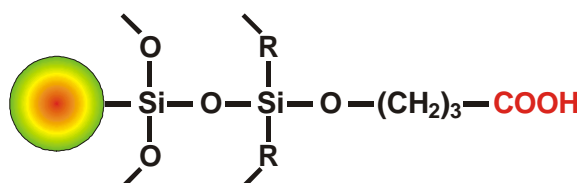

Product Information – screenMAG-Carboxyl

Product:	screenMAG-Carboxyl (Magnetic-Fluorescent Beads)					
Article Number:	2102-1 (1 ml); 2102-5 (5 ml)					
Description:	Aqueous dispersion of magnetic fluorescent silica particles					
Application:	For covalent coupling of biomolecules; see protocol A1					
Lot Number:	0501/10					
Production Date:	January 2010					
Weight of Volume:	50 mg/ml					
Core:	Maghemite					
Matrix:	Silica, non-porous					
Size (hydrodynamic diameter):	1.0 μm					
Number of Particles:	$1.8 \times 10^{12}/\text{g}$					
Surface Area:	$\sim 50 \text{ m}^2/\text{g}$					
Density:	$\sim 2.25 \text{ g}/\text{cm}^3$					
Type of Magnetization:	Superparamagnetic					
Functional Group:	Carboxyl (-COOH)					
Carboxylation Degree:	$\sim 850 \mu\text{mol COOH}/\text{g}$					
screenMAG/ Fluorescence Color:	B blue	G green	O orange	OP orange	RR red	R red
Excitation:	400 nm	502 nm	526 nm	536 nm	540 nm	633 nm
Emission:	420 nm	525 nm	555 nm	617 nm	625 nm	672 nm
Autoclaved:	Yes					
Storage Buffer / Solution:	ddH ₂ O					
Storage:	At 4 – 8 °C. Do not freeze! PROTECT FROM LIGHT!					
Expiry Date:	Two years after production date.					
Note:	For complete resuspension vortex thoroughly!					



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.