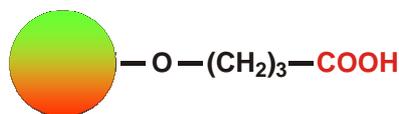

Product Information – screenCORE-Carboxyl

Product:	screenCORE-Carboxyl (Fluorescent Beads)				
Article Number:	6102-1 (1 ml); 6102-5 (5 ml)				
Description:	Aqueous dispersion of fluorescent silica particles				
Application:	For covalent coupling of biomolecules				
Lot Number:					
Production Date:					
Weight of Volume:	50 mg/ml				
Matrix:	Silica, high-porous				
Size (hydrodynamic diameter):	1.0 μm				
Number of Particles:	$\sim 1.8 \times 10^{12}/\text{g}$				
Surface Area:	$\sim 100 \text{ m}^2/\text{g}$				
Density:	$\sim 2.25 \text{ g}/\text{cm}^3$				
Functional Group:	Carboxyl (-COOH)				
Carboxylation Degree:	$\sim 850 \mu\text{mol COOH}/\text{g}$				
screenCORE/ Fluorescence Color:	B blue	GQ green	GF green	GA green	G green
Excitation:	400 nm	423 nm	436 nm	460 nm	502 nm
Emission:	420 nm	503 nm	520 nm	550 nm	525 nm
screenCORE/ Fluorescence Color:	OE orange	O orange	OP orange	RR red	R red
Excitation:	510 nm	526 nm	536 nm	540 nm	633 nm
Emission:	595 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.