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# *Product Information* – nano-screenMAG-Protein G

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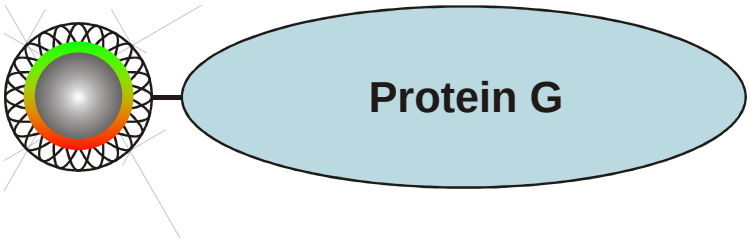
|---|---|---|---|
| Product: | **nano-screenMAG-Protein G** | | |
| Article Number: | 4504-1 (1 ml); 4504-5 (5 ml) | | |
| Description: | Aqueous dispersion of magnetic fluorescent nanoparticles | | |
| Application: | Strong binding affinity to the Fc region of IgGs;<br>see protocol: B2 | | |
| Weight of Volume: | 10 mg/ml | | |
| Lot: | | | |
| Production Date: | | | |
| Core: | Magnetite | | |
| Matrix: | Starch | | |
| Size (hydrodynamic diameter): | 100 nm | 150 nm | 200 nm |
| Number of Particles: | ~ 1.8 x $10^{15}$/g | ~ 5.2 x $10^{14}$/g | ~ 2.2 x $10^{14}$/g |
| Density: | ~ 1.25 g/$cm^3$ | | |
| Type of Magnetization: | Superparamagnetic | | |
| Functional Group: | Protein G | | |
| Binding capacity: | 4 – 6 mg human IgG / ml | | |

| nano-screenMAG/ | B | G | O | P | R |
|---|---|---|---|---|---|
| Fluorescence Color: | **blue** | **green** | **orange** | **pink** | **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: | PBS, 0.05 % sodium azide |
| Autoclaved: | No |
| Storage: | At 4 – 8 °C. **Do not freeze!** **PROTECT FROM LIGHT!** |
| Expiry date: | Six months 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.