



## TECHNICAL DATA SHEET

www.micromod.de  
Telephone: + 49 381 / 7999 7000  
Fax: + 49 381 / 7999 7070  
E-mail address: info@micromod.de

micromod Partikeltechnologie GmbH  
Schillingallee 68  
D-18057 Rostock  
Germany

---

<b>Product code:</b>	23-00-502
<b>Product name:</b>	nanomag@-CLD-redF
<b>Surface:</b>	plain
<b>Size:</b>	500 nm
<b>Solid content:</b>	5 mg/ml
<b>Composition:</b>	cross-linked dextran iron oxide composite particles
<b>Polydispersity index:</b>	< 0.200
<b>Shape:</b>	cluster-typed
<b>Density:</b>	2.5 g/ccm
<b>Magnetization:</b>	47 Am <sup>2</sup> /kg iron (H = 80 kA/m)
<b>Saturation magnetization:</b>	>70 Am <sup>2</sup> /kg iron (H > 800 kA/m)
<b>Coercive field H<sub>c</sub>:</b>	0.451 kA/m
<b>Stable in:</b>	aqueous buffers pH > 4
<b>Not stable in:</b>	organic solvents, acidic solutions pH < 4
<b>Product form:</b>	Suspension in PBS buffer (pH = 7.4)
<b>Particles per ml:</b>	3.1 E10
<b>Particles per mg:</b>	6.1 E9
<b>Optical properties:</b>	red fluorescent
<b>Colour:</b>	dark brown
<b>Excitation:</b>	552 nm
<b>Emission:</b>	580 nm
<b>Additional remarks:</b>	Storage at 2 - 8 °C for 6 months.