



## TECHNICAL DATA SHEET

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<b>Product code:</b>	125-01-501
<b>Product name:</b>	synomag®-CLD-redF
<b>Surface:</b>	NH <sub>2</sub>
<b>Size:</b>	50 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>Iron concentration:</b>	3 mg/ml
<b>Magnetization:</b>	100 Am <sup>2</sup> /kg iron (H = 80 kA/m)
<b>Saturation magnetization:</b>	> 110 Am <sup>2</sup> /kg iron (H > 800 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 E13
<b>Particles per mg:</b>	6.1 E12
<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.
<b>TECHNOTES:</b>	The particle matrix consists of cross-linked dextran.