



TECHNICAL DATA SHEET

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Product code:	164-00-102
Product name:	BNF-Starch-far redF
Surface:	plain
Size:	100 nm
Solid content:	10 mg/ml
Composition:	cross-linked starch iron oxide composite particles
Polydispersity index:	< 0.250
Shape:	cluster-typed
Density:	3.2 g/ccm
Iron concentration:	6 mg/ml
Magnetization:	49 Am ² /kg iron (H = 80 kA/m)
Saturation magnetization:	>76 Am ² /kg iron (H > 800 kA/m)
Coercive field Hc:	0.449 kA/m
Stable in:	aqueous buffers pH > 4
Not stable in:	organic solvents, acidic solutions pH < 4
Product form:	Suspension in PBS buffer (pH = 7.4)
Particles per ml:	6.0 E12
Particles per mg:	6.0 E11
Optical properties:	far-red fluorescent
Colour:	dark brown
Excitation:	732 nm
Emission:	758 nm
Additional remarks:	Storage at 2 - 8 °C for 6 months.
TECHNOTES:	The particle matrix consists of crosslinked hydroxyethyl starch.