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micromod
MODULAR DESIGNED PARTICLES

TECHNICAL DATA SHEET

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Product code:	10-02-801
Product name:	BNF-Starch
Surface:	COOH
Size:	80 nm
Solid content:	10 mg/ml
Composition:	cross-linked starch iron oxide composite particles
Polydispersity index:	< 0.200
Shape:	cluster-typed
Density:	3.2 g/ccm
Iron concentration:	5.5 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:	1.2 E13
Particles per mg:	1.2 E12
Colour:	dark brown
Additional remarks:	Storage at 2 - 8 °C for 6 months.
TECHNOTES:	The particle matrix consists of hydroxyethyl starch.