



## 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>	10-19-102
<b>Product name:</b>	BNF-Starch
<b>Surface:</b>	streptavidin
<b>Size:</b>	100 nm
<b>Solid content:</b>	10 mg/ml
<b>Composition:</b>	cross-linked starch iron oxide composite particles
<b>Polydispersity index:</b>	< 0.250
<b>Shape:</b>	cluster-typed
<b>Density:</b>	3.2 g/ccm
<b>Iron concentration:</b>	6 mg/ml
<b>Magnetization:</b>	49 Am <sup>2</sup> /kg iron (H = 80 kA/m)
<b>Saturation magnetization:</b>	>76 Am <sup>2</sup> /kg iron (H > 800 kA/m)
<b>Coercive field H<sub>c</sub>:</b>	0.449 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 (0.02 % sodium azide)
<b>Particles per ml:</b>	6.0 E12
<b>Particles per mg:</b>	6.0 E11
<b>Biotin binding capacity:</b>	> 200 pmol/mg iron
<b>Colour:</b>	dark brown
<b>Additional remarks:</b>	Storage at 2 - 8 °C for 3 months.
<b>TECHNOTES:</b>	The particle matrix consists of crosslinked hydroxyethyl starch.