TECHNICAL DATA SHEET

micromod Partikeltechnologie GmbH

Friedrich-Barnewitz-Str. 4
D-18119 Rostock
Germany

Telephone: + 49 381 / 54 34 56 10
Fax: + 49 381 / 54 34 56 20
E-mail address: info@micromod.de

Product code: 164-01-102
Product name: BNF-Starch-far redF
Surface: NH$_2$
Size: 100 nm
Solid content: 10 mg/ml
Composition: cross-linked starch iron oxide composite particles
Polydispersity index: < 0.2
Shape: cluster-typed
Density: 3.2 g/ccm
Iron concentration: 6.0 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.