TECHNICAL DATA SHEET

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Product code: 79-19-501
Product name: nanomag®-D-spio
Surface: streptavidin
Size: 50 nm
Solid content: 5 mg/ml
Composition: dextran iron oxide composite particles
Polydispersity index: < 0.25
Shape: cluster-typed
Density: 1.4 g/ccm
Iron concentration: 2.4 mg/ml
Magnetization: 56 Am²/kg iron (H = 80 kA/m)
Saturation magnetization: >69 Am²/kg iron (H > 800 kA/m)
Coercive field Hc: 0.077 kA/m
Stable in: aqueous buffers pH > 4
Not stable in: organic solvents, acidic solutions pH < 4
Product form: Suspension in PBS (0.02 % sodium azide)
Particles per ml: 5.5 E13
Particles per mg: 1.1 E13
Protein binding capacity: 1.5 µg streptavidin / mg particle (ca. 1-2 molecules streptavidin per particle)
Colour: dark brown
Additional remarks: Storage at 2 - 8 °C for 3 months.
TECHNOTES: The mean hydrodynamic particle diameter may vary in the range of 50-120 nm (Z-Average, photon correlation spectroscopy).