

## TECHNICAL DATA SHEET



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<b>Product code:</b>	PC31
<b>Product name:</b>	MPS300/Carboxyl
<b>Functional group</b>	Carboxylic acid
<b>Surface:</b>	Hydrophilic polymer coating
<b>Average Size:</b>	3.0µm
<b>Density:</b>	1.3 g/cm <sup>3</sup>
<b>Matrix:</b>	Polystyrene
<b>Solid content:</b>	10mg/mL
<b>Shape:</b>	Spherical
<b>Saturation magnetization:</b>	>8emu/g
<b>Magnetic property:</b>	Superparamagnetic
<b>Magnetic substance content:</b>	20%
<b>Stable in:</b>	Aqueous buffers, pH 4~10, alcohol
<b>Not Stable in:</b>	Aqueous buffers, pH <3 or pH >12
<b>Product form:</b>	Suspension in water
<b>Surface functional group density:</b>	60~100 µmol/g
<b>Sedimentation Rate:</b>	<0.08mm/min
<b>Colour:</b>	Brown
<b>Additional remarks:</b>	Storage at 2~8 °C. Do not freeze !
<b>Expiry Date</b>	Two years after production date
<b>Protein binding capacity:</b>	~20 µg protein /mg
<b>Technotes:</b>	Covalently couple of proteins, peptides, antibodies, enzymes, nucleic acids or other target specific molecules
<b>Application:</b>	Immunoassay, purification of DNA-/RNA-binding Proteins, protein purification, cell isolation