

NEW

MasterBeads

The easy ...

... WAY

The Ultimate Magnetic Beads:

Small and Fast

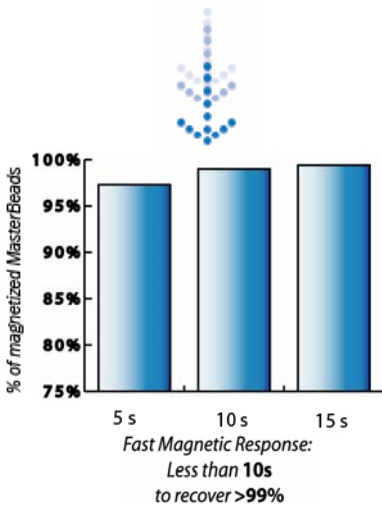
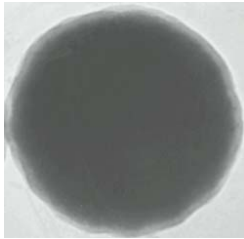
MasterBeads
Carboxylic Acid

MasterBeads
Streptavidin

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Superparamagnetic Nanoparticles

Precision manufacturing allows precise specifications



- **Ademtech** manufacture superparamagnetic particles of uniform size with a high degree of precision. Their own patented process provides the magnetic particles with a protective layer.
- **MasterBeads are new 500nm particles.** Rapid separation under magnetic fields is due to the high magnetic oxide content of the particles. The small size offers an increased surface area for binding and eliminates the sedimentation problems that affect larger particles.

MasterBeads Advantages:

> 70% Iron Oxide	No Sedimentation	No Aggregation
High Surface Area 5m ² /g	Easy to Couple	High Binding Capacities
Magnetization Under a Simple Magnetic Field	Easily automatable	No Residual Magnetism

MasterBeads – specifications

MasterBeads characteristics:

- High magnetic oxide content: > 70 %
- Magnetic susceptibility 40 emu/g
- Bead density ~ 2 g/cm³
- High surface area: 5 m²/g

MasterBeads Typical Binding Capacities:

- Carboxylic Acid:
 - COOH density: > 250 μmol/mg
- Streptavidin:
 - ~ 1000 pmol biotin/mg
 - > 15 μg biotinylated antibodies/mg
 - > 175 pmol biotinylated oligo (dT)/mg

MasterBeads 500nm

Functionality	Diameter (nm)	Concentration	Volume	Code Number
Carboxylic Acid	500nm	50mg/ml	1 – 5 – 10 – 20 ml	02150 – 02151 – 02152 - 02153
Streptavidin	500nm	10mg/ml	1 – 2 – 5 – 10 ml	03150 – 03151 – 03152 - 03153

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ISO 9001 Certified

ADEMTECH SA

Parc Scientifique Unitec 1 ;
4 Allée du Doyen Georges Brus - 33600 Pessac – France
Tel : +33 (0)5 57 02 02 01 - Fax : +33 (0)5 57 02 02 06
E-mail : ademtech@ademtech.com - www.ademtech.com