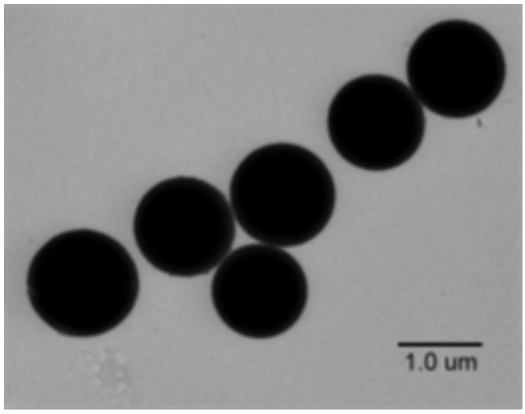
MagSense Life Sciences

Precision Magnetic Particles

New super paramagnetic particles from MagSense Life Sciences represent a breakthrough in performance separation - the magnetization of these particles is significantly higher and more uniform than has been previously available.

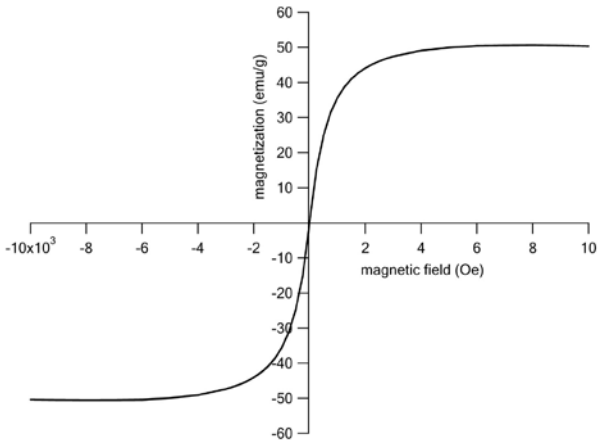


Bio-separations can be performed 3 to 10 times faster and with a higher level of efficiency with these particles, that are conveniently coated with a dense layer of carboxyl groups to makes them easy to functionalize with antibodies, proteins, and nucleic acids, using standard cross linking chemistries.

MagSense particles excel in performing demanding separations from large volumes (e.g. fermentation broths), high viscosity solutions (e.g. serum or whole blood), or in applications where efficiency matters. The uniformity of these particles also makes them ideal for lateral flow diagnostics or microfluidic systems that require high-magnetization and a well-defined size.

FEATURES

- High magnetic moment
- Uniform magnetic loading
- Uniform size (cv <20%)
- Hydrophilic surface
- Easy functionalisation
- Rapid separations
- High recovery



SPECIFICATIONS

Magnetic oxide content	>90%
Magnetic moment	60 emu/g
Density	~2.5 g/cm^3
Diameter	100, 200, 300nm and 1µ
Coefficient of Variance	<20%
Functionality	Carboxylic acid, amine and silica coatings.

TYPICAL APPLICATIONS

- Affinity separation of rare cell types
- *In vitro* diagnostics
- Nucleic acid purification
- Antibody purification
- Biophysical measurements
- Proteomics