Magno magnetic colloid
for Induction nanoHeating

nB nanoScale Biomagnetics

Magno is the first commercially available magnetic colloid specially designed for Inductive nanoHeating applications.

Optimizing the heating properties of MNPs is cumbersome and takes long time and dedicated manpower. Magno offers the solution for those researchers that need accurate data, repetibility and reliability to test new ideas such as physical models, or any heating application.
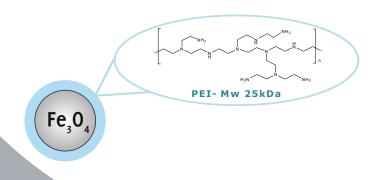
Magno is a water-based magnetic colloid consisting of magnetite (Fe_3O_4) nanoparticles with average sizes of 25nm functionalized with a biocompatible polymer. The magnetic nanoparticles display an impressive SPA value (typically ›210W/g, for f = 580KHz, Ho =300G eq to 23.877 KA/m).
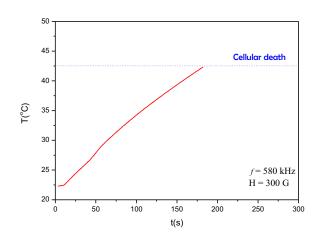
Magno has been manufactured and synthesized under controlled conditions using the DM100 technology. The precise control of the manufacturing conditions gives MAGNO a highly reproducible heating behavior and SPA values under different conditions, and an outstanding stability over the time.

Magno is the ideal row material for a first approximation to inductive nano heating research as well as for a great variety of advanced applications, only limited by your imagination. Covered by Polyethylenimine (PEI), MAGNO nanoparticles constitutes a powerful tool not only for basic research on power absorption but also for different applications in most fields of biomedicine.

Magno has been developed by nB nanoScale Biomagnetics under three basic principles for inductive heating research: repetibility, traceability and reliability.

Magno is the best and more specific magnetic colloid for your research on inductive heating of nanoestructured materials.
Do not spend your time trying to synthesize your own MNPs, just test the application you have in mind.

PEI- Mw 25kDa

Fe_3O_4

Cellular death

f = 580 kHz
H = 300 G

T(°C) / t(s)

www.nbnanoscale.com

The next step on
Induction nanoHeating research