



"Suppliers of Ferrofluids for Research and Industry"

Magnetic Particles and Particle Dispersions for Cell Labelling and Biomedical Applications

An increasingly important application in medicine is drug targeting and cell labelling using magnetic particles and microspheres. At Liquids Research Limited we have available nano sized particles based on ferrites which can be stabilised with a number of biocompatible coatings. Additionally we can also produce polymerised microparticles of nanometric magnetic grains for cell labelling and magnetic bioseparation applications.

Fine particles of ferrites, typically iron oxides available in a range of sizes from 10nm diameter and larger. Such particles are available either ready coated with a range of dispersants or in uncoated form suitable for coating with proteins or other materials for subsequent cell labelling applications.

Customised particles for a specific application can be prepared on modest time scales, typically of a few weeks and technical support in terms of coating and attachment can be provided.

As a small company operating in the EU we are also willing and interested to participate in R&D programmes with others including participation in the R&D programme of the Commission of the European Communities.

We are happy to accept speculative enquiries about the range of materials and expertise available in our company.

Current biocompatible coatings available

- Dextran
 - Albumin
 - Transferrin
 - Polyethyleneimine
 - Aspartine-glycine dipeptide (ASP-GLY)
 - Galactomannan
 - RGD Tripeptide
 - Chitosan
 - Avidin
 - Biotin
 - Insulin
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Health and Safety

Ferrofluids are not classed as hazardous materials. Normal industrial health and safety procedures should be practised when handling any ferrofluid. Rubber or latex gloves and goggles should be worn. In case of contact with skin the affected area should be washed with mild soap and water. In case of eye contact, the eyes should be flushed with plenty of clean water for 15 minutes. All our ferrofluids are supplied with a safety sheet.

For further information please contact our technical department at the address below.

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