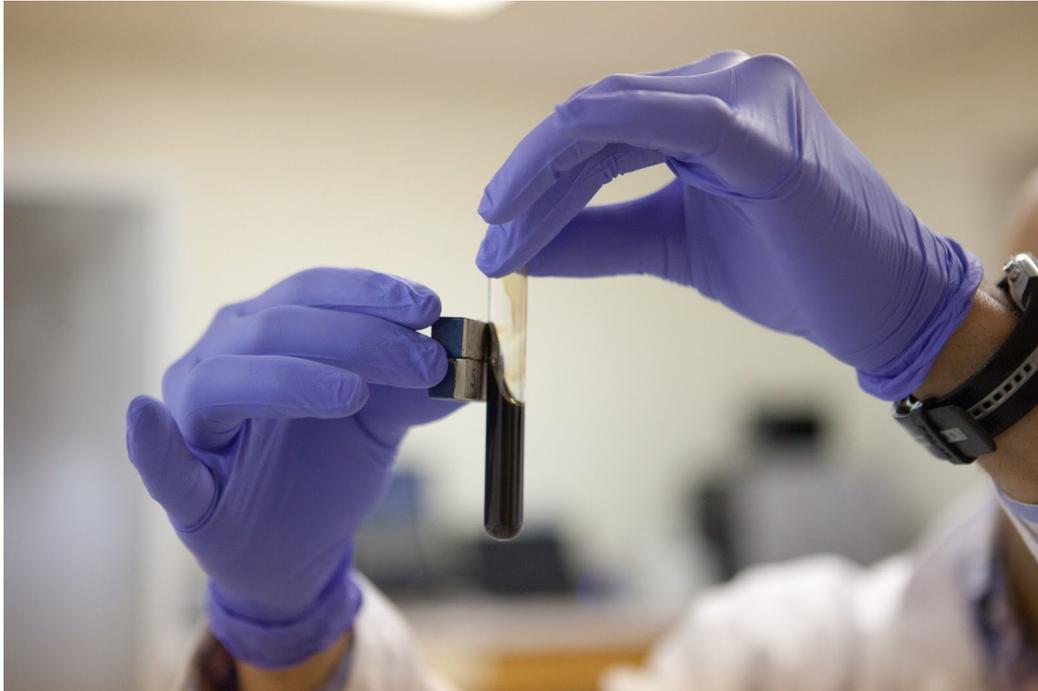


BioMagnetic Solutions launches Protein A Ferrofluid for Antibody Purification



BioMagnetic Solutions, an immunomagnetic cell separation company out of State College, Pennsylvania, just launched XpresSep™ Protein A Ferrofluid for Antibody Purification. This Protein A Ferrofluid combines our XpresSep™ Ferrofluids with a Protein A conjugation to create an antibody purification system that is **quick, highly efficient, and scalable!**

First, what is a Ferrofluid?

Ferrofluid = Nanomagnetic beads. We call our magnetic beads “*ferrofluids*” because their nano size gives them fluid-like, colloidal properties, similar to the zero gravity fuels introduced by NASA that our beads were named after. The size of our ferrofluid has been optimized for magnetic separations such that they do not face problems of larger magnetic beads:

- rapid settling out of solution → requiring constant mixing
- reduced the cell viability due to aggressive binding collisions,

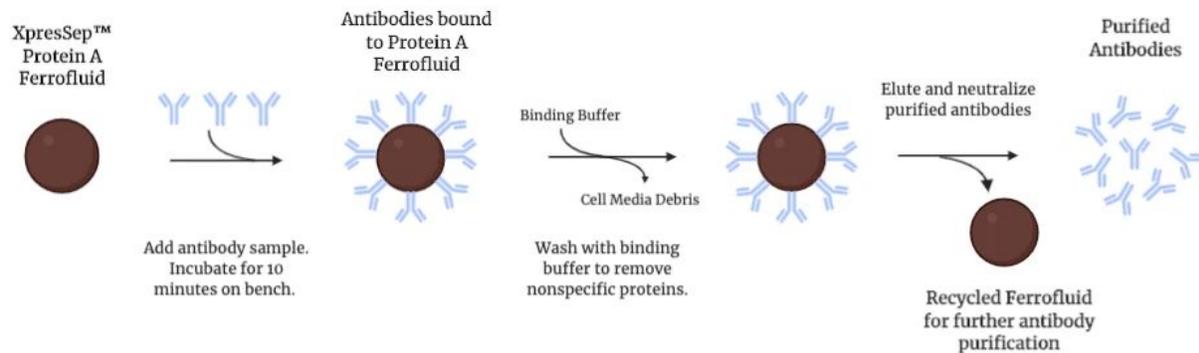
nor do they face problems of smaller magnetic beads:

- Need for an additional magnetic force such as a column to magnetically separate the beads.

The colloidal properties of our ferrofluid also mean they move through solution “wildly” with Brownian motion, which reduces incubation times and eliminates the need for mixing. These

properties make our ferrofluid the best size for cell separations, and the most cost-efficient size for manufacturing, allowing us to give you an inexpensive cell separation system!

Second, why Protein A Ferrofluid?



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Once Protein A conjugated to the Ferrofluid binds up the antibodies in a sample, the antibodies are now effectively magnetic, and when the sample is placed in a magnet, the antibodies separate out to the side and can be washed to remove any debris. Once the antibodies have been washed, the purified antibodies can be eluted off of the Protein A, and the ferrofluid can be recycled for further antibody purification.

Applications of [XpresSep™ Protein A Ferrofluid](#):

- Start to finish Antibody Purification in less than 1 hr!
 - Binding Capacity up to 900 ug/mg FF!
 - Recyclable Ferrofluid for Further Purification!
- Concentrate an antibody sample up to 1 mg/mL!

BioMagnetic Solutions

BioMagnetic Solutions is an immunomagnetic cell separation company with years of experience in cell separations and the CAR-T & Cell and Gene Therapy industry. Our focus is to provide clinicians, biomedical scientists, and CAR-T Cell & Gene Therapy product manufacturers with

state-of-the-art platforms, systems and solutions that are quantum leaps ahead of existing immunomagnetic cell separation systems. Contact us about our Protein A Ferrofluid, our cell selection kits, or with any questions you have regarding immunomagnetic cell separations!

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