



MAGNAFACTS Newsletter 2008 - issue 3

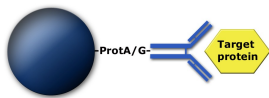
Biomarker Research

Working with biomarkers? Need methods to improve your analysis and/or separation. MagnaMedics can provide you with several tools to optimize your biomarker research. In this newsletter we highlight these products and inform you about the ongoing development of our new MagSi-phospho beads.

This newsletter is to keep our customers and clients up-to-date of the progress in product and application development with MagnaMedics. All our products are now available in our online shop at shop.magnamedics.net. If you do not want to receive future newsletters simply reply with "Stop" or inform us via info@magnamedics.com.

MagSi-protein A and MagSi-protein G

Protein A/G coated beads can be used to detect or isolate target biomarkers like relevant proteins or peptides by coupling the Fc domain of the IgG antibody for a target biomarker.



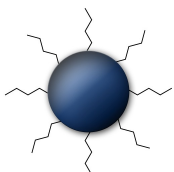
The advantage of protein G A beads, compared to Streptavidin beads, is that the antibody does not need to be biotinylated and the binding is

reversible. No cross linking of the antibody is needed using our protocols and the target biomarker can be eluted under native conditions for downstream analysis!!

So they are ideal for biomarker ID and validation, protein isolation and proteomics applications. Also, the magnetic properties allow easy and quick washing steps in protein isolations. See our [website](#) for more information.

MagnaMedics provides tools for your Biomarker research!

MagSi-proteomics reversed phase magnetic beads (C4, C8, C18)



MagSi-proteomics beads are magnetic beads that are an ideal tool for the purification, concentration and desalting of peptides and protein

digests. The surface of the beads has been modified with C4, C8 and C18 -alkyl groups that are typical for reversed phase applications .

MagSi-C8 beads represent an intermediate hydrophobicity (less hydrophobic than C18 and more hydrophobic than C4 beads) and are suitable for sample preparation in context to proteomic profiling and biomarker research. The relatively low hydrophobicity of the C4 beads allows the purification and fractionation of larger biomolecules like proteins. The MagSi proteomics beads have been

demonstrated powerful in prefractionation of biomarkers in human sera, saliva and tissue samples. For more information, see our [proteomics](#) part on our website.

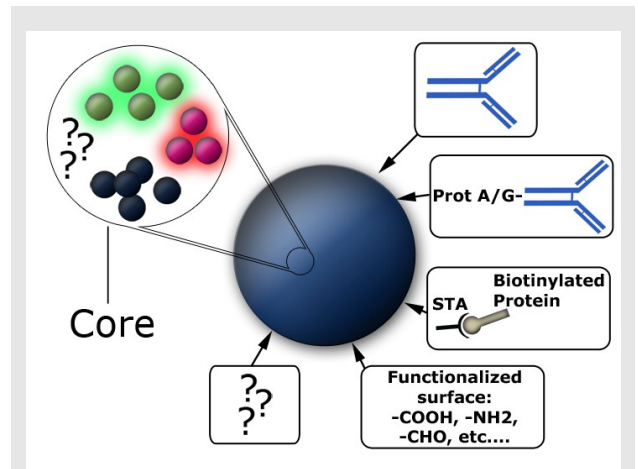
MagSi-phospho - Beads for isolation of phosphorylated proteins and peptides

MagnaMedics is developing state of the art magnetic beads for isolation and separation of phosphorylated proteins and peptides in proteomic workflows. Those magnetic beads will be commercially available soon. However, if you want to try these upcoming, novel magnetic beads please ask us for a sample for testing!!



MagSi-Tools

MagSi Tools are building block beads that are suitable to detect and capture your own specific biomarker, whether it is a protein or other biomolecule to the surface of the beads. Low unspecific binding, easy to use protocols and unique advantages of the MagSi tools make these beads an ideal tool for your life science research project. See our [MagSi-Tools](#) website for more information.



MagCustom toolbox. Quantum dots (green) or fluorescent dyes (red) and any other molecules (?) can be encapsulated next to the FerroFluids (black). On the surface different biomolecules like antibodies, proteins, streptavidin (STA), protein A or G and other biological and non-biological molecules can be attached on demand.

Expert team

Our dedicated team of chemists, biologists and biomarker experts can be your sparring partner in selecting the right bead for your intended application, or can help to customize bead-chemistry to your demand and the biomarker's specifications. The MagCustom toolbox shows many but not all possibilities we have to develop your specific bead for your specific biomarker application.