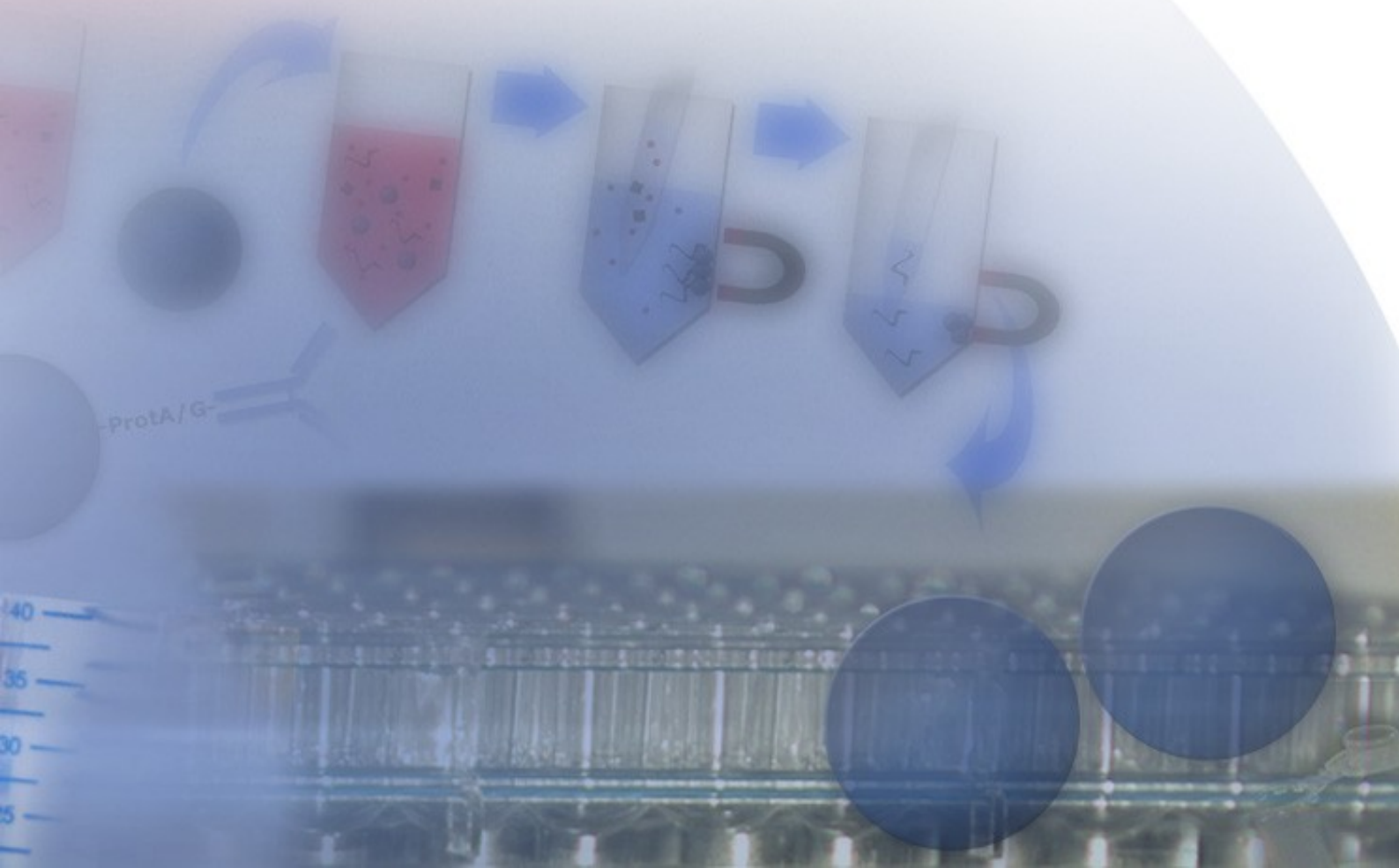




MagnaMedics Diagnostics

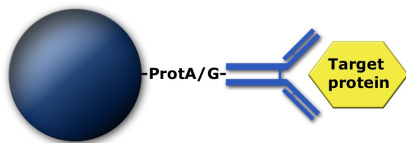
Biomarkers Analysis

***MagnaMedics provides tools for
your Biomarker
research!***

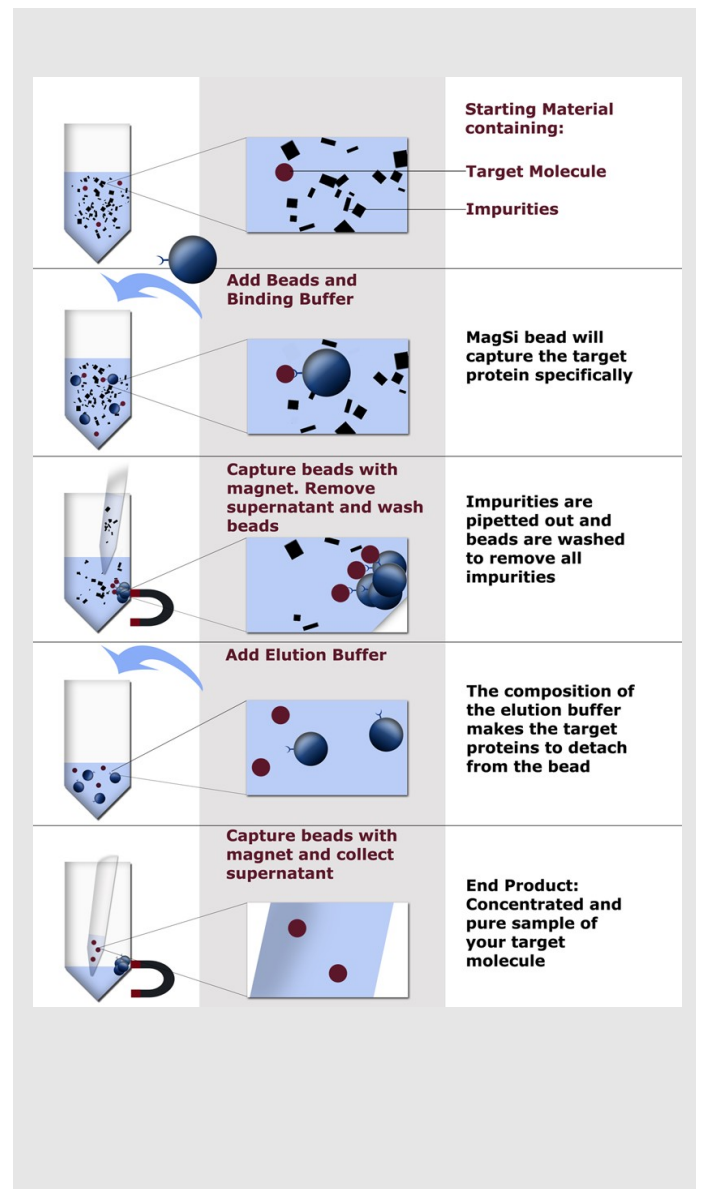


MagSi-protein A and MagSi-protein G

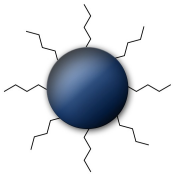
Protein A/G coated beads can be used to detect or isolate target biomarkers like relevant proteins or peptides by coupling the Fc domain of the IgG antibody against a target biomarker.



The advantage of protein G and A beads, compared to Streptavidin beads, is that the antibody does not need to be biotinylated and that 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 the MagSi-protein A/G beads are ideal for biomarker identification and validation, protein isolation and various proteomics applications. Also, the magnetic properties allow easy and quick washing steps in protein isolations. See our [website](#) for more information.



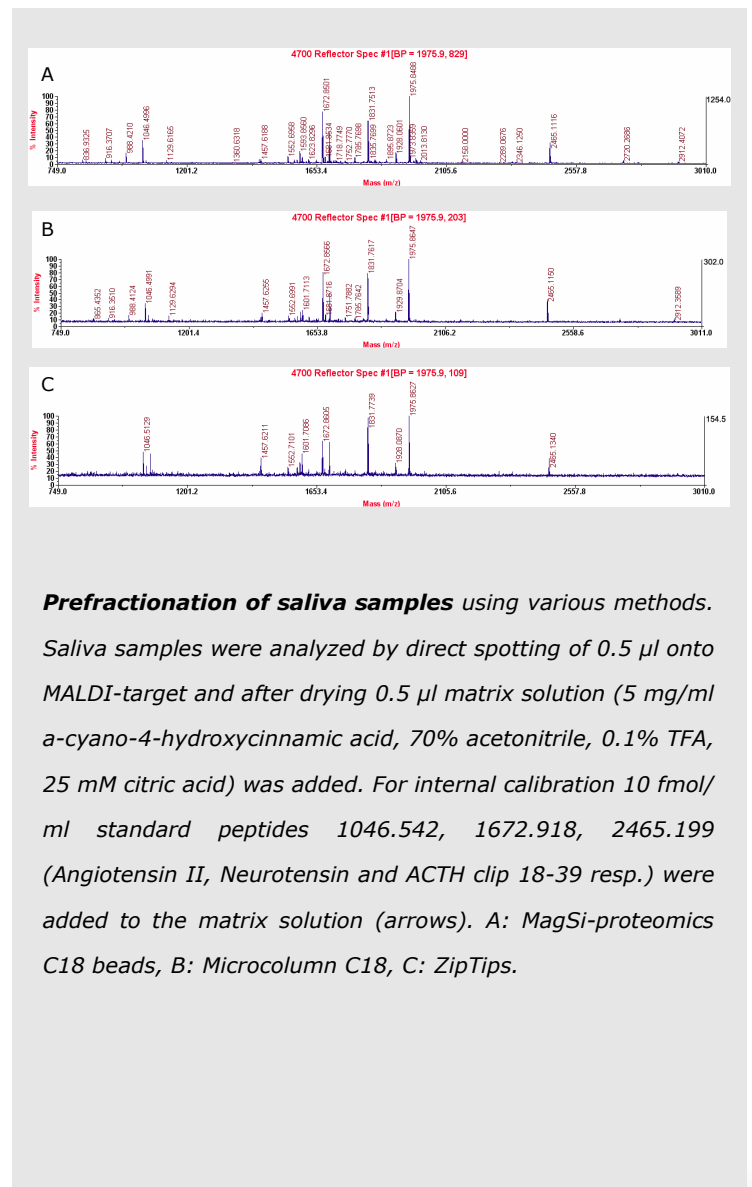
MagSi-proteomics reversed phase magnetic beads (C4, C8, C18)



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



Prefractionation of saliva samples using various methods.

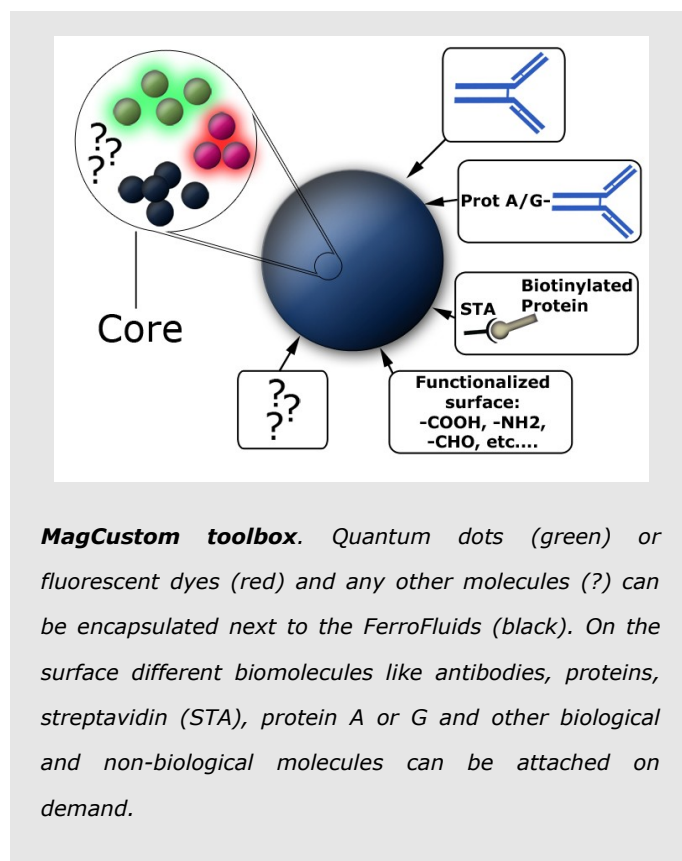
Saliva samples were analyzed by direct spotting of 0.5 μ l onto MALDI-target and after drying 0.5 μ l matrix solution (5 mg/ml *a*-cyano-4-hydroxycinnamic acid, 70% acetonitrile, 0.1% TFA, 25 mM citric acid) was added. For internal calibration 10 fmol/ml standard peptides 1046.542, 1672.918, 2465.199 (Angiotensin II, Neurotensin and ACTH clip 18-39 resp.) were added to the matrix solution (arrows). A: MagSi-proteomics C18 beads, B: Microcolumn C18, C: ZipTips.

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. These magnetic beads will be commercially available soon!

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.



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 if we have to develop your specific bead for your specific biomarker application.

MagnaMedics Diagnostics B.V.

Burg. Lemmensstraat 366
6163 JT Geleen
www.magnamedics.com

tel: +31-(0)46-8200206
fax: +31-(0)46-4106825
Info@magnamedics.com