

New innovative purification resins for research and manufacturing in Life Science and Biopharma

Bio-Works started 2006 and is located at Uppsala Business Park site in Sweden. The company designs, develops, manufactures and supplies innovative leading edge products for purification and separation of peptides, proteins, oligonucleotides, viruses and other biomolecules for uses in research, process development and manufacturing in Life Science & Biopharma.

Bio-Works agarose based chromatography resins are manufactured using a proprietary method that results in porous beads with a tight size distribution and very high mechanical stability. Agarose based matrices have been successfully used for decades in biotechnology, from research to manufacturing scale purifications, due to its exceptional compatibility with biomolecules including proteins, peptides, and nucleic acids. Our company's WorkBeads™ resins are designed for separations that require optimal capacity, purity, productivity and reproducible scale-up results.

Experience and Quality

Bio-Works is highly experienced in the development and manufacturing of separation resins, and very knowledgeable about separation applications. The experience in our team covers the successful founding and growth of start-up companies, global and regional management within multinational

companies, and the successful development, launch, and marketing of leading edge technologies.

The company processes follow a Quality Management System (QMS) based on standards of ISO 9001:2008.

Bio-Works can supply product information, quality documents and support on request; technical support, certificates, statements, vendor audits and regulatory support information. Bio-Works believes in sustainability and care about the environment.



Technologies

Agar used as the starting material for WorkBeads resins is an inert, versatile and readily available natural material isolated from seaweed. It is the leading material used for purification matrices in protein science and biopharmaceutical processing. It will not denature or in any other way harm the delicate biotechnology products that are purified. Specialist knowledge is required to produce beads with suitable size, rigidity and porosity and then further to derivatize and make surface modifications for optimal final products.

The rigidity of the agarose based beads is important to avoid compression under high flow rates. Bio-Works patented cross-linking technology leverages high bead rigidity which allows very high flow rates. Large volumes can be processed fast and economically which is a key factor in manufacturing processes.

Products

Bio-Works advanced agarose based products are designed for purification of monoclonal and polyclonal antibodies, recombinant and native proteins, peptides, oligonucleotides, viruses, vaccines, enzymes, dairy proteins and for optimized purification of His-tagged proteins.



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Bio-Works optimized WorkBeads resins are produced in several different bead sizes and porosities for both preparative research and bioprocess manufacturing scales. This allows seamless scalability and reproducible results. The bulk resins are available in pack sizes from 1.5 ml to 10 L and larger volumes on request.

The ready-to-use prepacked BabyBio™ columns (1 ml and 5 ml) and prepacked OptioBio™ 10x100 (7.9 ml) glass columns are designed for rapid, convenient and reproducible selectivity screenings and small scale purifications.

Several products are available for coupling of specific custom designed resins, for polishing of the target product in the final step, as well as, for very fast conditioning of the target product to prevent degradation.

Long term commitment

Bio-Works experience in agarose chemistry and long-term commitment ensures secured supply of products and continuous development of new chemistries, matrices and formats for future launches of high quality products for research, process development and manufacturing.

Our production and R&D departments are located in the same facility, this enables us to offer high flexibility and great technical service. In other words, we have the capacity and knowledge to develop and manufacture a large range of products optimized for many different application areas.

Bio-Works production meets your needs today and in the future. Our ambition is to make purification simple.

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