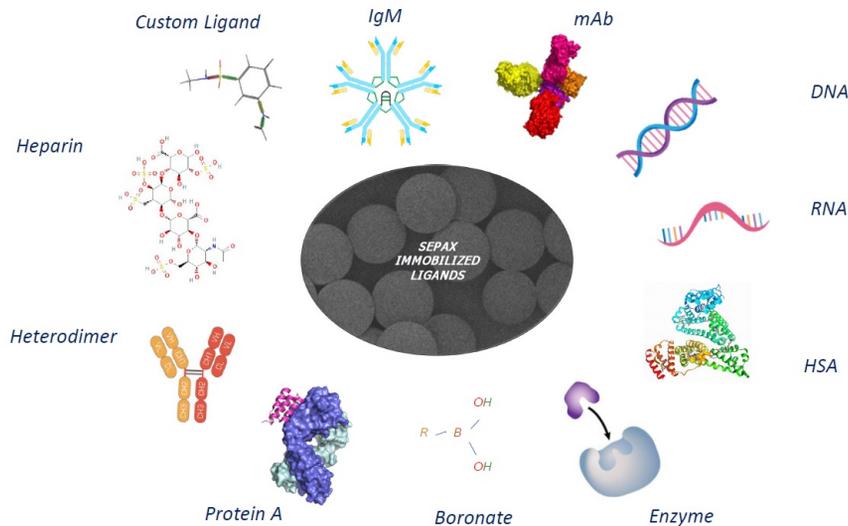


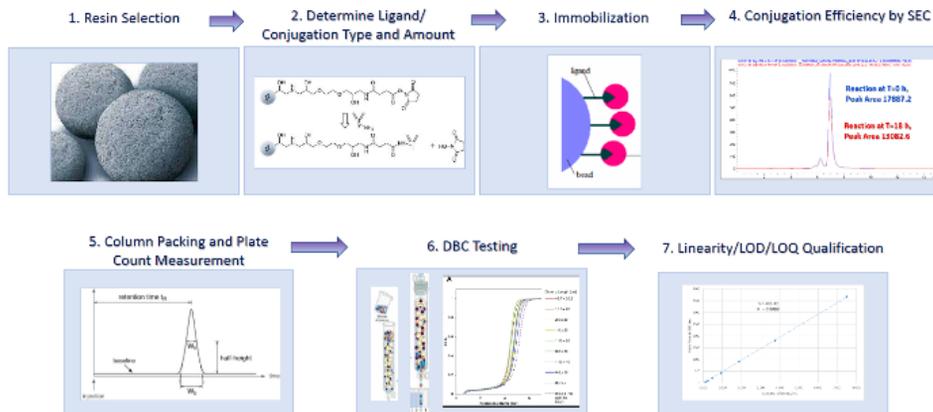
Custom Analytical and Preparative Columns for Affinity Chromatography with Sepax Technologies, Inc.

Sepax has optimized its immobilization techniques and chemistry (matrix and linker) to enable immobilization of a wide variety of ligands outlined below. The affinity process enables the ligand to selectively capture the target molecule from a wide range of impurities such as HCP, nucleic acids, lipids, etc. This is the most efficient and specific method in the industry for analytical, PAT, and process. All our resins are designed for scale up from 5 - 90 μm .



Experience and Chemistry Defines our Technology

Our PhD chemists have extensive experience in resin and ligand design, such ligand chemistry including but not limited to NHS Coupling, streptavidin, disulfide exchange, epoxy ring coupling, CNBR/NaOH. We have discovered techniques to optimize immobilization through the use of synthetic organic chemistry linkers with compatibility to protein structure, including hydrophobicity (steric hindrance), active binding sites, and conformation changes/hydrodynamic radius as listed above.



The Sepax Immobilization Process

We developed an in-process method that measures the accuracy, conjugation efficiency, and reliability of ligand binding. Resin selection screening and linker chemistry reduces nonspecific interaction and optimizes loading capacity. The covalent attachment of ligand to the linker bound to the matrix coupled with size exclusion chromatography quantitatively measures the binding efficiency. This allows for the optimal conjugation time and the highest possible ligand loading. From there, column packing efficiency is measured along with dynamic binding capacity (continuous feed to 10% breakthrough). Once capacity and packing is optimized, accuracy measurements are performed assessing linearity, LOD, LOQ, and spiked sample accuracy.

Sepax Affinity Services

Visit our website: Sepax-Tech.com
 Contact us: 1-877-SEPAX-US and Info@sepax-tech.com
 Reach our Technical Support: TechSupport@sepax-tech.com