U.S. Biotech Sources, LLC, Richmond, CA 94820
Tel. (510) 488-3671; (510) 932-8735; (510) 734-3371; Fax (510) 758-9488
info@usbiotechsources.com; www.usbiotechsources.com

BTS Provides the Best tools for Protein Purification!

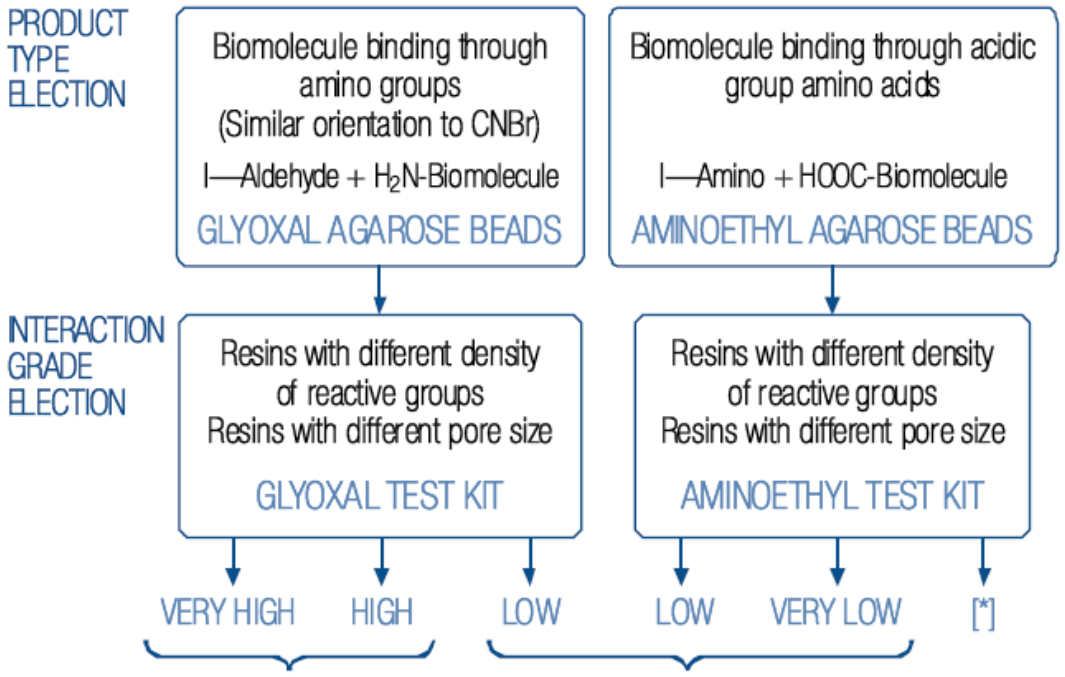
ENZYME & ANTIBODY IMMOBILIZATION

SELECTION CRITERIA FOR IMMOBILIZATION PRODUCTS: Deciding on product types and degrees of loading (from very high to very low)

Immobilization is a technique that binds a biomolecule (enzyme, antibody, affinity proteins like Protein A or G) to a support giving high stability and making easier re-using the immobilized molecule.

The choice of Glyoxal or Aminoethyl will depend on the biomolecule to be immobilized, the accessibility of the reactive groups and the direction/ orientation required for the binding to the support. The easiest strategy is to screen with the correct Test kit, and decide on options.

RECOMMENDED PROCESS



- High/Very high binding capacity.
- High immobilized enzyme stability.
- Possibility of multiple binding points.

- Good binding capacity.
- Immobilized enzyme stability.
- Minimum distortion of immobilized enzyme.

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TEST KIT SCREENING

GLYOXAL KIT Includes: 2 ml LOW Density GLYOXAL 4BCL 2 ml HIGH Density GLYOXAL 4BCL 2 ml LOW Density GLYOXAL 6BCL 2 ml HIGH Density GLYOXAL 6BCL 2 ml VERY HIGH Density GLYOXAL 6BCL	GLYOXK-2	Immobilization for basic groups (Lys)
AMINOETHYL KIT Includes: 2 ml VERY LOW Density AMINOETHYL 4BCL 2 ml LOW Density AMINOETHYL 6BCL	AMINOK-2	Immobilization for acidic groups (Asp, Glu)

This covalent binding also confers a qualitative advantage compared to resins activated with CNBr:

GLYOXAL/AMINOETHYL BEADS

- Very stable.
- High reproducibility.
- Ready to use.
- Irreversible binding.
- High yield.
- Long shelf-life.

CNBr ACTIVATED BEADS

- Unstable.
- Low reproducibility.
- Previous hydration step required.
- Reversible binding.
- Low protein yield.
- Short shelf-life.