

## Amino methacrylic resin

**Cat. No.** Amino-001M    **Lot. No.** (See product label)

### SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>      | <p>Amino activated material is able to immobilize ligands with carboxyl or formyl groups. The product is prepared by introducing amino groups onto a methacrylic polymer. These resins may be used directly for adsorption of compounds having an affinity for the particular amino acid immobilized, or they can serve as functionalised linkers and allow covalent attachment through their free carboxyl terminus to a ligand containing a free primary amine.</p> |
| <b>Cat.no</b>                | Amino-001M                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Characteristics</b>       | <p>The optimized functional group density of Creative biomart Amino resin (100 µmol/mL) is ideal for coupling of either proteins or low molecular weight ligands. For example, lactose was coupled by reductive alkylation to yield a ligand density of ca. 30 µmol/mL resin.</p>                                                                                                                                                                                     |
| <b>Form</b>                  | slurry in 20 % (v/v) ethanol                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Size</b>                  | 10mL, 25 mL, 100 mL, 1 L                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Matrix</b>                | methacrylic polymer                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Functional group</b>      | Amino group                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Average particle size</b> | 65 µm                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Ligand concentration</b>  | 100 ± 30 µmol/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|                                  |                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Recommended flow rate</b>     | normally 60 – 600 cm/h                                                                                   |
| <b>Recommended column height</b> | 5-20cm                                                                                                   |
| <b>Chemical stability</b>        | Can be used with any salts, non-ionic detergents, organic solvents. Resistant to 0.1M HCl and 0.5M NaOH. |
| <b>Physical stability</b>        | Will not shrink or swell substantially under changes in pH or ionic strength                             |
| <b>pH working range</b>          | 2-13                                                                                                     |
| <b>Shelf life</b>                | 10 years                                                                                                 |

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