Resin and Column Selection Guide

The right column for the right resin
## Resin and Column Selection Guide

### Affinity | Desalting/Buffer Exchange

<table>
<thead>
<tr>
<th>EconoFit Columns</th>
<th>Foresight Columns*</th>
<th>Econo Alpha Columns</th>
<th>Bio-Scale MT Columns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main features</strong></td>
<td>Prepacked and empty columns for automated or manual chromatography</td>
<td>Robust prepacked columns for high-throughput experiments</td>
<td>Low- to medium-pressure chromatography; glass; adjustable bed height</td>
</tr>
<tr>
<td><strong>Bed volume</strong></td>
<td>1/5 ml</td>
<td>1/5 ml</td>
<td>0.1–230.7 ml</td>
</tr>
<tr>
<td><strong>Bed height</strong></td>
<td>2.5 cm</td>
<td>2/10 cm</td>
<td>0.2–47 cm</td>
</tr>
<tr>
<td><strong>Maximum operating pressure</strong></td>
<td>72 psi/0.5 MPa</td>
<td>290–435 psi/2–3 MPa</td>
<td>150–900 psi/1.03–6.20 MPa</td>
</tr>
<tr>
<td><strong>Frit pore size</strong></td>
<td>15 μm</td>
<td>7–12 μm</td>
<td>5–50 μm</td>
</tr>
<tr>
<td><strong>Adaptors available for column</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Available prepacked</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</table>

### Chromatography Technique

#### Affinity Stationary Phase

<table>
<thead>
<tr>
<th>Resin</th>
<th>P</th>
<th>R</th>
<th>N</th>
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<tbody>
<tr>
<td>Nuvia IMAC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nuvia IMAC, Uncharged</td>
<td>P</td>
<td>–</td>
<td>R</td>
</tr>
<tr>
<td>Profinity IMAC</td>
<td>P</td>
<td>–</td>
<td>R</td>
</tr>
<tr>
<td>Profinity IMAC, Uncharged</td>
<td>R</td>
<td>–</td>
<td>R</td>
</tr>
<tr>
<td>Profinity GST*</td>
<td>P</td>
<td>–</td>
<td>N</td>
</tr>
<tr>
<td>Profinity eXact</td>
<td>P</td>
<td>–</td>
<td>R</td>
</tr>
<tr>
<td>Profinity Epoxide</td>
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<tr>
<td>UNOsphere SUPA</td>
<td>P</td>
<td>–</td>
<td>R</td>
</tr>
<tr>
<td>Affi-Gel Protein A</td>
<td>N</td>
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</tr>
<tr>
<td>Affi-Prep Protein A</td>
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</tr>
<tr>
<td>DEAE Affi-Gel Blue</td>
<td>P</td>
<td>–</td>
<td>R</td>
</tr>
<tr>
<td>CM Affi-Gel Blue</td>
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<td>–</td>
<td>R</td>
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<td>R</td>
</tr>
<tr>
<td>Affi-Gel Boronate</td>
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</tr>
<tr>
<td>Affi-Prep Polymyxin</td>
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</tr>
<tr>
<td>Affi-Gel Heparin</td>
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<td>–</td>
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</tr>
<tr>
<td>Affi-Gel Hz Hydrazide</td>
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<tr>
<td>Affi-Gel 102</td>
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<tr>
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#### Desalting/Buffer Exchange Stationary Phase

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<tr>
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<tr>
<td>Bio-Gel P-30</td>
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</tbody>
</table>

* Foresight Columns are available only in prepacked format.
** Available only in prepacked format.
*** Also available in Bio-Scale Mini 10 and 50 ml prepacked formats.
P, available prepacked; R, recommended; N, not recommended; —, empty column not available
# Resin and Column Selection Guide

## Affinity | Desalting/Buffer Exchange

### Micro/Mini/Bio-Spin Columns
- **Main features**: Broad range of sizes in an economical format for use in a standard centrifuge
- **Maximum bed volume**: 0.8/1.2/1.6 ml
- **Bed height**: 2/2.8/3.7 cm
- **Maximum operating pressure**: 1,000 x g spin
- **Frit pore size**: 30 μm
- **Adapters available for column**: N/A
- **Available prepacked**: Yes

### Poly-Prep and Econo-Pac Columns
- **Main features**: Empty Econo-Pac and Poly-Prep Gravity Flow Columns are ideal for sample and buffer preparation and for gravity flow chromatography
- **Maximum bed volume**: 2/20 ml
- **Bed height**: 3.9/11.5 cm
- **Maximum operating pressure**: 14.7 psi/0.1 MPa
- **Frit pore size**: 30 μm
- **Adapters available for column**: Yes
- **Available prepacked**: Yes

### Glass Econo-Column Columns
- **Main features**: Broad range of sizes in an economical format with a porous polymer bed support
- **Maximum bed volume**: 1,374 ml
- **Bed height**: 5–170 cm
- **Maximum operating pressure**: 14.7 psi/0.1 MPa
- **Frit pore size**: 30 μm
- **Adapters available for column**: Yes
- **Available prepacked**: No

### Chromatography Technique

<table>
<thead>
<tr>
<th>Affinity Stationary Phase</th>
<th>Micro/Mini/Bio-Spin</th>
<th>Poly-Prep and Econo-Pac</th>
<th>Glass Econo-Column</th>
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<tr>
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<td>Nuvia IMAC, Uncharged</td>
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<tr>
<td>Profinity IMAC</td>
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<td>R</td>
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<td>Profinity GST*</td>
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<tr>
<td>Affi-Gel Hz Hydrazide</td>
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<td>Affi-Gel 102</td>
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<td>Affi-Gel 10/15</td>
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<table>
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<tr>
<th>Desalting/Buffer Exchange Stationary Phase</th>
<th>Micro/Mini/Bio-Spin</th>
<th>Poly-Prep and Econo-Pac</th>
<th>Glass Econo-Column</th>
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<tr>
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<td>Bio-Gel P-30</td>
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* Available only in prepacked format.

P, available prepacked; R, recommended; N, not recommended
## Resin and Column Selection Guide

### Ion Exchange | Size Exclusion/Gel Filtration

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<tr>
<th>Main features</th>
<th>EconoFit Columns</th>
<th>Foresight Columns*</th>
<th>Econo Alpha Columns</th>
<th>Bio-Scale MT Columns</th>
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<tbody>
<tr>
<td>Prepacked and empty columns for automated or manual chromatography</td>
<td>Robust prepacked columns for high-throughput experiments</td>
<td>Low- to medium-pressure chromatography; glass; adjustable bed height</td>
<td>High-resolution chromatography; acrylic jacketed glass; adjustable bed height</td>
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<tr>
<td>Bed volume</td>
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<td>1/5 ml</td>
<td>0.1–230.7 ml</td>
<td>1.9–21.9 ml</td>
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<tr>
<td>Bed height</td>
<td>2.5 cm</td>
<td>2/10 cm</td>
<td>0.2–47 cm</td>
<td>5–12.4 cm</td>
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<tr>
<td>Maximum operating pressure</td>
<td>72 psi/0.5 MPa</td>
<td>290–435 psi/2–3 MPa</td>
<td>150–900 psi/1.03–6.20 MPa</td>
<td>500–1,000 psi/3.45–6.9 MPa</td>
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<tr>
<td>Frit pore size</td>
<td>15 µm</td>
<td>7–12 µm</td>
<td>5–50 µm</td>
<td>10 µm</td>
</tr>
<tr>
<td>Adaptors available for column</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Available prepacked</td>
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### Chromatography Technique

#### Ion Exchange Stationary Phase

<table>
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<th>Stationary Phase</th>
<th>Macro-Prep High Q</th>
<th>P</th>
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<th>R</th>
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<td>Macro-Prep 25 Q</td>
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<td>Macro-Prep 25 S</td>
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<td>R</td>
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<tr>
<td>Nuvia Q</td>
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<td>R</td>
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<td></td>
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<tr>
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<td>–</td>
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<tr>
<td>Bio-Rex</td>
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<td>Chelex</td>
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<td>R</td>
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<td>–</td>
<td>R</td>
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</tbody>
</table>

#### Size Exclusion/Gel Filtration Stationary Phase

| Bio-Gel P | P | – | R | N |
| Bio-Gel A | R | – | R | N |
| Bio-Beads S-X | R | – | R | N |

#### Other Prepacked Columns

- **ENrich Q and S**: High-resolution ion exchange chromatography; bed volume: 1/8 ml; maximum operating pressure: 500 psi/3.45 MPa
- **ENrich SEC 70 and 650**: High-resolution size exclusion chromatography; bed volume: 24 ml; maximum operating pressure: 600 psi/4.1 Mpa
- **UNO Q and S**: Continuous bed ion exchange chromatography; bed volume: 1.3/6/12 ml; maximum operating pressure: 700 psi/4.82 MPa
- **UNO Q and S Polishing**: Continuous bed ion exchange chromatography; bed volume: 0.16 ml; maximum operating pressure: 200 psi/1.3 MPa

* Foresight, ENrich, and UNO Columns are available only in prepacked format.

P, available prepacked; R, recommended; N, not recommended; —, empty column not available
# Resin and Column Selection Guide

## Ion Exchange | Size Exclusion/Gel Filtration

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<tr>
<th>Micro/Mini/Bio-Spin Columns</th>
<th>Poly-Prep and Econo-Pac Columns</th>
<th>Glass Econo-Column Columns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main features</strong></td>
<td>Broad range of sizes in an economical format for use in a standard centrifuge</td>
<td>Empty Econo-Pac and Poly-Prep Gravity Flow Columns are ideal for sample and buffer preparation and for gravity flow chromatography</td>
</tr>
<tr>
<td><strong>Bed volume</strong></td>
<td>0.8/1.2/1.6 ml</td>
<td>2/20 ml</td>
</tr>
<tr>
<td><strong>Bed height</strong></td>
<td>2/2.8/3.7 cm</td>
<td>3.9/11.5 cm</td>
</tr>
<tr>
<td><strong>Maximum operating pressure</strong></td>
<td>1,000 x g spin</td>
<td>14.7 psi/0.1 MPa</td>
</tr>
<tr>
<td><strong>Frit pore size</strong></td>
<td>30 μm</td>
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</tr>
<tr>
<td><strong>Adapters available for column</strong></td>
<td>N/A</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Available prepacked</strong></td>
<td>Yes</td>
<td>Yes</td>
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### Chromatography Technique

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#### Size Exclusion/Gel Filtration Stationary Phase

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<tr>
<td>Bio-Gel P</td>
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</table>

P, available prepacked; R, recommended; N, not recommended
Resin and Column Selection Guide

Mixed-Mode | Hydrophobic Interaction

<table>
<thead>
<tr>
<th>Main features</th>
<th>EconoFit Columns</th>
<th>Foresight Columns*</th>
<th>Econo Alpha Columns</th>
<th>Bio-Scale MT Columns</th>
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<tbody>
<tr>
<td>Bed volume</td>
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<td>1/5 ml</td>
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<td>500–1,000 psi/3.45–6.9 MPa</td>
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Chromatography Technique

**Mixed-Mode Stationary Phase**

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<th>CHT Type I, 20 µm</th>
<th>CHT Type II, 20 µm</th>
<th>CHT Type I, 40 or 80 µm</th>
<th>CHT Type II, 40 or 80 µm</th>
<th>CHT XT, 40 µm</th>
<th>MPC Type I, 40 µm</th>
<th>CFT Type II, 40 µm</th>
<th>Nuvia aPrime 4A</th>
<th>Nuvia cPrime</th>
<th>Bio-Gel HT</th>
<th>Bio-Gel HTP</th>
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**Hydrophobic Interaction Stationary Phase**

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<th>Stationary Phase</th>
<th>Macro-Prep 1-Butyl</th>
<th>Macro-Prep Methyl</th>
<th>Bio-Beads SM-2</th>
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<tr>
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<tr>
<td>Bio-Beads SM-2</td>
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<td>--</td>
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* Foresight Columns are available only in prepacked format.
** Available prepacked only with CHT Type I, 10 µm stationary phase. See ordering information at the end of this document.
P, available prepacked; R, recommended; N, not recommended; —, empty column not available.
# Resin and Column Selection Guide

## Mixed-Mode | Hydrophobic Interaction

<table>
<thead>
<tr>
<th>Main features</th>
<th>Micro/Mini/Bio-Spin Columns</th>
<th>Poly-Prep and Econo-Pac Columns</th>
<th>Glass Econo-Column Columns</th>
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<tbody>
<tr>
<td><strong>Bed volume</strong></td>
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<td>14.7 psi/0.1 MPa</td>
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### Chromatography Technique

#### Mixed-Mode Stationary Phase

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<tr>
<th>CHT Type I, 20 μm</th>
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<tr>
<td>Bio-Gel HT</td>
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#### Hydrophobic Interaction Stationary Phase

| Macro-Prep t-Butyl | R | R | R |
| Macro-Prep Methyl | R | R | R |
| Bio-Beads SM-2 | R | R | R |

P, available prepacked; R, recommended; N, not recommended
### Ordering Information

#### Prepacked Columns

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<tr>
<th>Description</th>
<th>Catalog #</th>
<th>Quantity</th>
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### Ion Exchange

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<td>1 x 1 ml</td>
</tr>
<tr>
<td></td>
<td>12007021</td>
<td>1 x 5 ml</td>
</tr>
<tr>
<td>Foresight Nuvia HP-Q</td>
<td>12009298</td>
<td>5 x 1 ml</td>
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<tr>
<td>RoboColumn Units</td>
<td>12007013</td>
<td>8 x 200 μl</td>
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<tr>
<td></td>
<td>12007014</td>
<td>8 x 600 μl</td>
</tr>
<tr>
<td>Foresight Nuvia HP-Q</td>
<td>12006908</td>
<td>2 x 96-well plates, 20 μl</td>
</tr>
<tr>
<td>Filter Plates</td>
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</tr>
<tr>
<td>EconoFit Nuvia S</td>
<td>12009291</td>
<td>1 x 1 ml</td>
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<td>Foresight Nuvia S</td>
<td>732-4720</td>
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<tr>
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<td>732-4740</td>
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<tr>
<td>Foresight Nuvia S</td>
<td>732-4801</td>
<td>8 x 200 μl</td>
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<tr>
<td>RoboColumn Units</td>
<td>732-4802</td>
<td>8 x 600 μl</td>
</tr>
<tr>
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<td>732-4701</td>
<td>2 x 96-well plates, 20 μl</td>
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<tr>
<td>Filter Plates</td>
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<tr>
<td>EconoFit Nuvia HR-S</td>
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<td>Foresight Nuvia HR-S</td>
<td>732-4831</td>
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<td>RoboColumn Units</td>
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<tr>
<td>Foresight Nuvia HR-S</td>
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<td>Filter Plates</td>
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<tr>
<td>Poly-Prep AG 1-X8, chloride, 100–200 mesh</td>
<td>7316211</td>
<td>50 x 2 ml</td>
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### Econo Alpha Columns and Accessories

<table>
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<td>12009409</td>
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<td>12009440</td>
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<td>Econo Alpha Column</td>
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### Econo Alpha Frits

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<td>15 mm, 30 μm pore size, pack of 20</td>
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<td>15 mm, 50 μm pore size, pack of 20</td>
<td>12009468</td>
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<td>25 mm, 5 μm pore size, pack of 20</td>
<td>12009469</td>
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<td>25 mm, 10 μm pore size, pack of 20</td>
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</tr>
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<td>25 mm, 20 μm pore size, pack of 20</td>
<td>12009471</td>
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<td>25 mm, 30 μm pore size, pack of 20</td>
<td>12009472</td>
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</tr>
<tr>
<td>25 mm, 50 μm pore size, pack of 20</td>
<td>12009473</td>
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<tr>
<td>10 mm, 5 μm pore size, pack of 20</td>
<td>12009474</td>
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<tr>
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<td>10 mm, 20 μm pore size, pack of 20</td>
<td>12009476</td>
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<td>10 mm, 30 μm pore size, pack of 20</td>
<td>12009477</td>
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<td>10 mm, 50 μm pore size, pack of 20</td>
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<td>6.6 mm, 5 μm pore size, pack of 20</td>
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<td>6.6 mm, 10 μm pore size, pack of 20</td>
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<td>6.6 mm, 30 μm pore size, pack of 20</td>
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<tr>
<td>6.6 mm, 50 μm pore size, pack of 20</td>
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### Econo Alpha Packing Sleeve

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<td>6.6 mm</td>
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### Econo Alpha O-Rings

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<td>15 mm</td>
<td>12009488</td>
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### Econo-Column Columns and Accessories

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<tbody>
<tr>
<td>Econo-Column Selection Pack A.</td>
<td>7376601</td>
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</tr>
<tr>
<td>0.7 x 10, 20, 30 cm</td>
<td>1.5 x 20, 50 cm</td>
<td></td>
</tr>
<tr>
<td>1.5 x 30, 50 cm</td>
<td>2.5 x 20, 50 cm</td>
<td></td>
</tr>
<tr>
<td>Econo-Column Selection Pack B.</td>
<td>7376607</td>
<td></td>
</tr>
<tr>
<td>1 of each standard column</td>
<td>1.0 x 20, 30, 50 cm</td>
<td></td>
</tr>
<tr>
<td>1.5 x 20, 30, 50 cm</td>
<td></td>
<td></td>
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### Econo-Column

<table>
<thead>
<tr>
<th>Description</th>
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<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 x 5 cm</td>
<td>0.5 x 10 cm</td>
<td>pack of 4</td>
</tr>
<tr>
<td>0.5 x 15 cm</td>
<td>0.5 x 20 cm</td>
<td>pack of 4</td>
</tr>
<tr>
<td>0.5 x 30 cm</td>
<td>0.5 x 50 cm</td>
<td>pack of 4</td>
</tr>
<tr>
<td>0.5 x 100 cm</td>
<td>0.7 x 15 cm</td>
<td>pack of 1</td>
</tr>
<tr>
<td>0.7 x 15 cm</td>
<td>0.7 x 30 cm</td>
<td>pack of 2</td>
</tr>
<tr>
<td>0.7 x 50 cm</td>
<td>0.7 x 100 cm</td>
<td>pack of 2</td>
</tr>
<tr>
<td>1 x 5 cm</td>
<td>1 x 50 cm</td>
<td>pack of 4</td>
</tr>
<tr>
<td>1 x 10 cm</td>
<td>1 x 100 cm</td>
<td>pack of 2</td>
</tr>
<tr>
<td>1 x 20 cm</td>
<td>1 x 200 cm</td>
<td>pack of 4</td>
</tr>
<tr>
<td>1 x 30 cm</td>
<td>1 x 300 cm</td>
<td>pack of 2</td>
</tr>
<tr>
<td>1 x 50 cm</td>
<td>1 x 500 cm</td>
<td>pack of 2</td>
</tr>
<tr>
<td>1 x 100 cm</td>
<td>1 x 1000 cm</td>
<td>pack of 2</td>
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<tr>
<td>1 x 120 cm</td>
<td>1 x 1200 cm</td>
<td>pack of 2</td>
</tr>
<tr>
<td>1 x 15 cm</td>
<td>1 x 150 cm</td>
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<td>1 x 30 cm</td>
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<td>pack of 1</td>
</tr>
<tr>
<td>1 x 1500 cm</td>
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### Econo-Column, Jacketed

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<tbody>
<tr>
<td>0.7 x 15 cm</td>
<td>0.7 x 30 cm</td>
<td>pack of 2</td>
</tr>
<tr>
<td>1 x 5 cm</td>
<td>1 x 50 cm</td>
<td>pack of 4</td>
</tr>
<tr>
<td>1 x 10 cm</td>
<td>1 x 100 cm</td>
<td>pack of 4</td>
</tr>
<tr>
<td>1 x 20 cm</td>
<td>1 x 200 cm</td>
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<tr>
<td>1 x 30 cm</td>
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<td>1 x 50 cm</td>
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<td>1 x 100 cm</td>
<td>1 x 1000 cm</td>
<td>pack of 4</td>
</tr>
<tr>
<td>1 x 120 cm</td>
<td>1 x 1200 cm</td>
<td>pack of 2</td>
</tr>
<tr>
<td>1 x 15 cm</td>
<td>1 x 150 cm</td>
<td>pack of 1</td>
</tr>
<tr>
<td>1 x 30 cm</td>
<td>1 x 300 cm</td>
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<tr>
<td>1 x 50 cm</td>
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<td>1 x 100 cm</td>
<td>1 x 1000 cm</td>
<td>pack of 1</td>
</tr>
<tr>
<td>1 x 1500 cm</td>
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<td>pack of 4</td>
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## Description Catalog # Quantity

### Empty Columns, continued

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<td>7371512</td>
<td>1.5 x 10 cm, pack of 2</td>
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<td>7374156</td>
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<td>7374152</td>
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<td>Econo-Column</td>
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<td>1.5 x 100 cm, pack of 2</td>
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<td>1.5 x 120 cm, pack of 2</td>
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<td>7375071</td>
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<td>Econo-Column Reservoir</td>
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### Bio-Scale MT Columns and Accessories

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<td>Bio-Scale MT2 Column</td>
<td>7510083</td>
<td>10 x 64 mm</td>
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<td>Bio-Scale MT5 Column</td>
<td>7510085</td>
<td>12 x 88 mm</td>
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<td>Bio-Scale MT10 Column</td>
<td>7510087</td>
<td>15 x 113 mm</td>
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<td>Replacement Parts Kit</td>
<td>7510091</td>
<td>For Bio-Scale MT2</td>
</tr>
<tr>
<td></td>
<td>7510093</td>
<td>For Bio-Scale MT5</td>
</tr>
<tr>
<td></td>
<td>7510095</td>
<td>For Bio-Scale MT10</td>
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<tr>
<td></td>
<td>7510097</td>
<td>For Bio-Scale MT20</td>
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### Bio-Spin, Mini Bio-Spin, and Micro Bio-Spin Columns

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</tr>
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<td>7326008</td>
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<td>Bio-Spin</td>
<td>7326025</td>
<td>1,000</td>
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<tr>
<td>Mini Bio-Spin</td>
<td>7326207</td>
<td>100</td>
</tr>
<tr>
<td>Micro Bio-Spin</td>
<td>7326204</td>
<td>100</td>
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<tr>
<td>End Caps for Bio-Spin, Micro Bio-Spin, Econo-Pac, and Poly-Prep</td>
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### Econo-Pac Columns

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<tr>
<td>Poly-Prep</td>
<td>7311553</td>
<td>1,000</td>
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</tbody>
</table>

### EconoFit Columns

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog #</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EconoFit</td>
<td>12009232</td>
<td>5 x 1 ml</td>
</tr>
<tr>
<td>EconoFit</td>
<td>12009233</td>
<td>5 x 5 ml</td>
</tr>
</tbody>
</table>

Visit [bio-rad.com/NGCsystem](http://bio-rad.com/NGCsystem) to learn more about the NGC Chromatography System.

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Nuvia aPrime 4A Resin is covered by U.S. Patent Number 9,669,402 and foreign counterparts.

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