Get Your Fill.
A full line of empty chromatography columns and accessories.
Bio-Rad’s Empty Column Line Is Packed With Options

From low-pressure chromatography to high-resolution separations, we offer a comprehensive line of empty chromatography columns, accessories, and media to meet your specific chromatographic needs. As with all products from Bio-Rad, each is manufactured under the strictest quality control standards. You can expect only the highest quality with every purchase you make.

Empty Column Selection Guide

<table>
<thead>
<tr>
<th>Application Requirement</th>
<th>Product Line</th>
<th>Pressure Range, psi</th>
<th>Volume Range, ml</th>
<th>Best Used With</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-resolution column</td>
<td>Bio-Scale™ columns</td>
<td>0–1,000</td>
<td>1.9–22</td>
<td>High-performance system</td>
</tr>
<tr>
<td>General-purpose glass column</td>
<td>Econo-Column® columns</td>
<td>0–14.7</td>
<td>0–1,374</td>
<td>Low-pressure or gravity-flow system</td>
</tr>
<tr>
<td>General-purpose disposable plastic column</td>
<td>Econo-Pac® columns</td>
<td>0–14.7</td>
<td>0–20</td>
<td>Low-pressure or gravity-flow system</td>
</tr>
<tr>
<td>General-purpose disposable plastic column</td>
<td>Poly-Prep® columns</td>
<td>0–14.7</td>
<td>0–2</td>
<td>Low-pressure or gravity-flow system</td>
</tr>
<tr>
<td>General-purpose disposable plastic column</td>
<td>Bio-Spin® columns</td>
<td>—</td>
<td>0–1.2</td>
<td>Swinging bucket centrifuge</td>
</tr>
<tr>
<td>General-purpose disposable plastic column</td>
<td>Micro Bio-Spin™ columns</td>
<td>—</td>
<td>0–0.8</td>
<td>Standard microcentrifuge</td>
</tr>
</tbody>
</table>

Bio-Rad also offers process-scale chromatography columns. Contact your local Bio-Rad office for more information.
Low-Pressure Chromatography Columns

Bio-Rad’s Econo-Column line offers a complete range of versatile columns for low-pressure chromatography applications. A wide range of glass columns, jacketed columns, flow adaptors, reservoirs, and other chromatography essentials offers an unbeatable combination of performance, reliability, and value.

**Glass Econo-Column Columns**
Econo-Column chromatography columns are the standard in high-quality, affordable low-pressure chromatography columns.
- Available in lengths from 5 to 170 cm
- Inner diameter from 0.5 to 5.0 cm
- Volumes from 0 to 1,374 ml
- Operating pressure to 1 bar/14.7 psi
- Fully autoclavable and NaOH compatible

**Jacketed Econo-Column Columns**
Jacketed Econo-Column columns are ideal for chromatographic applications requiring temperature control, such as thermal chromatography of DNA separation using Bio-Gel® hydroxyapatite media.
- Integral water jacket for cooling or heating
- Open-ended column delivered with 2 flow adaptors
- Standard column delivered with 1 flow adaptor

**Flow Adaptors**
Flow adaptors significantly improve column performance by eliminating headspace above the gel bed and by protecting the gel bed from disruption during sample loading.
- Available for 1.0, 1.5, 2.5, and 5.0 cm columns
- Fit Econo-Column chromatography columns, jacketed Econo-Column chromatography columns, and Econo-Pac columns*

**Column Funnel and Glass Reservoirs**
Econo-Column funnel and reservoirs are ideal for column packing, loading diluted samples, or delivering large volumes of buffer.
- Reservoirs available for 500 ml and 1 L capacities
- Reservoirs fit 0.5, 0.7, 1.0, and 1.5 cm ID Econo-Column columns
- Econo-Column funnel is ideal for packing columns up to 2.5 cm ID, including Econo-Column columns, Poly-Prep columns, and Econo-Pac columns

* Special Econo-Pac flow adaptor allows use with Econo-Pac columns.
Disposable Low-Pressure Chromatography Columns

All of Bio-Rad's disposable chromatography columns are made of chemically compatible polypropylene, have a 30 µm hydrophilic bed support, are fully autoclavable, and can be washed with NaOH. All are also available prepacked with selected media.

Bio-Spin and Micro Bio-Spin Columns
Bio-Spin and Micro Bio-Spin columns are disposable polypropylene spin columns that can be packed with a variety of chromatography media, such as gel filtration media, to remove dye terminators, clean up DNA primers, remove radiolabels, exchange buffers, or desalt proteins or DNA.

- Bio-Spin columns hold up to 1.2 ml of medium and fit in standard swinging bucket centrifuges
- Micro Bio-Spin columns hold up to 0.8 ml of medium and fit in standard microcentrifuges
- Both columns fit into standard microtubes
- Luer end fitting with snap-off tip
- Porous 30 µm polyethylene bed support retains fine particles
- Autoclavable and NaOH compatible

Poly-Prep Columns
Poly-Prep columns are convenient gravity-flow chromatography columns for sample preparation and small-scale chromatography applications, including work with radioisotopes and other applications where disposable products are required.

- 2 ml bed volume and integral 10 ml reservoir
- Porous 30 µm polyethylene bed support retains fine particles
- Luer end fitting with snap-off tip
- Autoclavable and NaOH compatible

Econo-Pac Columns
Econo-Pac columns are disposable 20 ml polypropylene columns for sample preparation and small-scale chromatography applications.

- 0–20 ml bed volume and 10 ml reservoir
- Porous 30 µm polyethylene bed support retains fine particles
- May be fitted with a flow adaptor or used for gravity-flow chromatography
- Luer end fitting with snap-off tip
- Autoclavable and NaOH compatible

Poly Column Rack
The poly column rack is ideal for using or storing Poly-Prep or Econo-Pac columns.

- Holds up to 20 Poly-Prep columns or 10 Econo-Pac columns
- Removable tube rack for Poly-Prep column use
- Reservoir tray to catch flow-through buffers
Medium-Pressure Chromatography Columns

These high-quality columns are compatible with Bio-Rad’s BioLogic™ systems or any medium- to high-pressure chromatography system. The range of columns has been specifically designed to provide high-resolution separation of biomolecules when packed with suitable chromatography media.

Bio-Scale MT High-Resolution Columns

Bio-Scale MT columns allow precise sample application and provide the low dead volume required for high-resolution separations.

- 4 column sizes (2, 5, 10, and 20 ml) allow easy scale-up of purification protocols
- Adjustable bed support eliminates head space
- Fingertight assembly eliminates the need for tools
- Biocompatible material resistant to high pressures allows use of most chromatographic media

![Image of Bio-Scale MT columns with annotations:]
- Easy assembly for packing and cleaning
- Biocompatible materials for preservation of sample biological activity
- Optimized design of sample applicator for high-resolution chromatography
- Adjustable bed support eliminates head space
- Transparent glass tube allows easy bed inspection
- Resistance to high pressures allows use with most chromatographic media
- Fingertight assembly eliminates the need for tools

Medium-Pressure Chromatography Columns

These high-quality columns are compatible with Bio-Rad’s BioLogic™ systems or any medium- to high-pressure chromatography system. The range of columns has been specifically designed to provide high-resolution separation of biomolecules when packed with suitable chromatography media.

Bio-Scale MT High-Resolution Columns

Bio-Scale MT columns allow precise sample application and provide the low dead volume required for high-resolution separations.

- 4 column sizes (2, 5, 10, and 20 ml) allow easy scale-up of purification protocols
- Adjustable bed support eliminates head space
- Fingertight assembly eliminates the need for tools
- Biocompatible material resistant to high pressures allows use of most chromatographic media
<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>737-9112</td>
<td>1 L Eco-Pac Chromatography Columns, empty, includes upper bed supports, end caps, tip closures, 50</td>
</tr>
<tr>
<td>737-1011</td>
<td>Eco-Pac Chromatography Columns, empty, includes upper bed supports, end caps, tip closures, 50</td>
</tr>
<tr>
<td>737-1511</td>
<td>Eco-Pac Chromatography Columns, empty, includes upper bed supports, end caps, tip closures, 50</td>
</tr>
<tr>
<td>737-2511</td>
<td>Female Luer Plug, 25, includes 10 bed supports, 5 O-rings, 5 frits, 2 O-rings, 1 female Luer plug</td>
</tr>
<tr>
<td>737-4511</td>
<td>* Includes 2 flow adaptors.</td>
</tr>
<tr>
<td>737-6204</td>
<td>** 5.0 cm flow adapter does not include cam mechanism.</td>
</tr>
</tbody>
</table>

Flow Adaptors:

<table>
<thead>
<tr>
<th>Flow Adaptor</th>
<th>Volume, ml</th>
<th>Pressure Limit, psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>737-9112</td>
<td>1 L</td>
<td>9.5–11.3</td>
</tr>
<tr>
<td>737-1011</td>
<td>500 ml</td>
<td>19.4–21.9</td>
</tr>
<tr>
<td>737-1511</td>
<td>1 L</td>
<td>9.5–11.3</td>
</tr>
<tr>
<td>737-2511</td>
<td>250 ml</td>
<td>9.5–11.3</td>
</tr>
<tr>
<td>737-4511</td>
<td>150 ml</td>
<td>9.5–11.3</td>
</tr>
<tr>
<td>737-6204</td>
<td>500 ml</td>
<td>9.5–11.3</td>
</tr>
</tbody>
</table>

Flow Adaptor Maintenance Kit:

For 1.0 cm adaptor with cam mechanism.

<table>
<thead>
<tr>
<th>Order #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>737-9112</td>
<td>1 L Eco-Pac Chromatography Columns, empty, includes upper bed supports, end caps, tip closures, 50</td>
</tr>
<tr>
<td>737-1011</td>
<td>Eco-Pac Chromatography Columns, empty, includes upper bed supports, end caps, tip closures, 50</td>
</tr>
<tr>
<td>737-1511</td>
<td>Eco-Pac Chromatography Columns, empty, includes upper bed supports, end caps, tip closures, 50</td>
</tr>
<tr>
<td>737-2511</td>
<td>Female Luer Plug, 25, includes 10 bed supports, 5 O-rings, 5 frits, 2 O-rings, 1 female Luer plug</td>
</tr>
<tr>
<td>737-4511</td>
<td>* Includes 2 flow adaptors.</td>
</tr>
<tr>
<td>737-6204</td>
<td>** 5.0 cm flow adapter does not include cam mechanism.</td>
</tr>
</tbody>
</table>