Jordi Gel DVB Columns

Jordi’s 100% Crosslinked Polymeric Column
Jordi Labs manufactures a unique line of GPC columns featuring a **highly crosslinked, 100% divinylbenzene (DVB)** backbone. Jordi DVB columns offer unsurpassed strength and durability as compared to conventional GPC columns, which typically contain silica-based or polystyrene-DVB (PS-DVB) stationary phases. Our *proprietary DVB chemistry* provides a stationary phase that exhibits versatile solvent compatibility and performs well across the entire pH range.

The highly crosslinked nature of Jordi DVB columns affords you the freedom to use a wide range of solvents, without risking a decrease in column performance. Jordi DVB resin has an inherent, high tolerance against shrinking and swelling, relative to mainstream PS-DVB packings.

**Advantages of Jordi Gel DVB Columns**

- Stable up to 150°C
- 0-14 pH stable
- Stable up to 30,000 psi
- Compatible with nearly all organic solvents
- Longer column life
- No shrinking or swelling
Standard Jordi resins boast a narrow average particle size of 5μm, translating to higher efficiency separations. Our DVB packings feature larger pore volumes than typical columns, allowing for better resolution and quicker runs. The highly crosslinked nature of Jordi resins imparts greater strength even at pressures up to 30,000 psi.

**Increase time and cost efficiency. Improve productivity.**

1 Jordi column does the job of 3 conventional columns in **40% less time.**

Jordi Gel DVB columns produce highly linear calibration curves, and they offer high plate counts and pore volume for sharper peaks and superior resolution.

**Calibration Curve Comparison: Jordi vs. Competitor B**

- **Jordi**
  - Mixed Bed
  - Dimensions: 25cm x 10mm
  - Porosity: Mixed Bed
  - Remains Linear
  - Note tail in high Mw region

- **Competitor B**
  - Dimensions: 30cm x 7.8mm
  - Porosity: $10^3$, $10^4$, $10^5$

Single Jordi DVB Column
Dimensions: 50cm x 10mm
Porosity: Mixed Bed

3 Competitor’s PS-DVB Columns
Dimensions: 30cm x 7.8mm
Porosity: $10^3$, $10^4$, $10^5$
Available GPC Porosities
100Å, 500Å, $10^3$Å, $10^4$Å, $10^5$Å, Mixed Bed, Solid Bead

<table>
<thead>
<tr>
<th>Description</th>
<th>MW Range</th>
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</thead>
<tbody>
<tr>
<td>GPC Solid Bead</td>
<td>2,000-400,000,000</td>
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<tr>
<td>GPC 100Å</td>
<td>&lt;100-5,000</td>
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<tr>
<td>GPC 500Å</td>
<td>&lt;100-10,000</td>
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<tr>
<td>GPC $10^3$Å</td>
<td>&lt;100-50,000</td>
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<tr>
<td>GPC $10^4$Å</td>
<td>100-100,000</td>
</tr>
<tr>
<td>GPC $10^5$Å</td>
<td>10,000-10,000,000</td>
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<tr>
<td>GPC Mixed Bed</td>
<td>100-10,000,000</td>
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Column Dimensions
*Jordi is pleased to discuss the opportunity for custom column dimensions*
250 x 10 mm (standard), 500 x 10 mm, 300 x 7.8 mm, 250 x 4.6 mm, 150 x 4.6 mm

Jordi Labs provides some of the finest GPC products on the market, backed by over 25 years of research and development. Jordi Labs constantly strives to create and integrate innovative column technology for the benefit of chromatography science and most importantly, all of our valued customers. We welcome you to visit our extensive applications database online at www.jordilabs.com/applications.php.

Please call Jordi Labs today to discuss your routine or breakthrough application(s). Jordi routinely engages in successful method development projects, which often involve very complex polymer systems. We have the experience, the resources, the polymer expertise and the utmost dedication to solving even the most challenging polymer separation. Let Jordi help you find the GPC solution that suits your needs.

**Featured Application**
Polyethylene: High Resolution GPC

Part Number: 15001
Description: Jordi DVB 500Å
Column Set: 6-50cm X 10mm ID
Mobile Phase: Trichlorobenzene (TCB)