HILIC (Hydrophilic-Interaction Chromatography) column for enhanced retention of extremely polar compounds.

- Offering the strongest retentivity among the Amide columns available in the market due to the usage and bonding of carbamoyl groups.
- Superior stability and durability even under water rich mobile phases.

**Benefits**

- Designed to Retain Polar Analytes and Metabolites with Higher Chemical Stability

**Physical Properties**

- Silica: ES (Evolved Surface) Silica Gel
- Particle Size: 3 μm, 5 μm
- Surface Area: 350 m²/g
- Pore Size: 100 Å (10 nm)
- Pore Volume: 0.85 mL/g
- Bonded Phase: Carbamoyl Groups
- End-capping: None
- Carbon Loading: 15 %
- pH Range: 2 ~ 8.5
- USP Code: L68
Comparison of Retentivity

HILIC phases are particularly useful for compounds that are weakly retained by reversed-phase columns such as Melamine and Cyanuric Acid. As shown below, InertSustain Amide provides stronger retention for such analytes compared to other HILIC columns available in the market.

<table>
<thead>
<tr>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Column</strong></td>
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<tr>
<td><strong>Eluent</strong></td>
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<tr>
<td><strong>Flow Rate</strong></td>
</tr>
<tr>
<td><strong>Col. Temp.</strong></td>
</tr>
<tr>
<td><strong>Detection</strong></td>
</tr>
</tbody>
</table>

Extreme Durability

The use of metaphosphoric acid aqueous solution as a diluent solvent is a common technique to prevent the decomposition of sample in Vitamin C (Ascorbic acid) analysis. A silica-base Amide type columns often show short column lifetime due to the usage of strongly acidic diluent solvent in the analysis. As proven below, InertSustain Amide offer longer column lifetime even under such harsh analytical condition.

1st Injection

After 1,000 Injections

**Longer Column Lifetime!**
Ordering Information

InertSustain Amide Analytical Columns

<table>
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<tr>
<th>Particle Size: 3 μm</th>
<th>Length \ I.D. (mm)</th>
<th>2.1</th>
<th>3.0</th>
<th>4.0</th>
<th>4.6</th>
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<tbody>
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</tr>
</tbody>
</table>

* End-fittings are 1/16" Waters-compatible.
* Max. Operating Pressure: 20 MPa (200 Bar)

Worldwide Ordering Information

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InertSustain
Inertsil

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The specification and the column type are subject to change without notice due to continual improvements.