Carolina™ Solution Sheets

Gastric Juice

Learn how to make and store artificial gastric juice.

Materials
Distilled Water (item #857201)
Hydrochloric Acid (item #867790)
Thymol (item #896190)
Pepsin (item #879379)

Procedure
1. Combine 2.9 mL hydrochloric acid, 0.008 g thymol, and 2.5 g pepsin with 500 mL distilled water.
2. Make as needed and keep refrigerated.

Notes
• Gastric juice has a shelf life of 3 months; keep solution refrigerated.

Label Information

<table>
<thead>
<tr>
<th>Characteristics</th>
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<tbody>
<tr>
<td>Date Prepared:</td>
</tr>
<tr>
<td>Initials of Preparer:</td>
</tr>
<tr>
<td>Health Risk: 0</td>
</tr>
<tr>
<td>Flammability: 0</td>
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<tr>
<td>Reactivity: 0</td>
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</tbody>
</table>

Applications
Gastric acid is a digestive fluid, naturally produced in the lining of the stomach. It has a pH of 1 to 2 and is composed of hydrochloric acid (HCl), potassium chloride (KCl), and sodium chloride (NaCl). The acid plays a key role in digestion of proteins and making ingested proteins unravel so they can be subsequently broken down by digestive enzymes.

Reference