L-glutamine (200 mM)

**Product Use**
L-glutamine is an essential amino acid required for cell culture growth. The normal concentration of L-glutamine in media is 292 mg/L or 2 mM. L-glutamine is not stable for long periods of time unless it is frozen. The material should be aliquoted to smaller volumes and then frozen.

**Stability**
The stability of L-glutamine in culture medium is primarily dependent on the temperature at which it is stored. Lonza test data for long-term storage indicates that the L-glutamine concentration is reduced by approximately 2-3% per month in tissue culture medium stored at 2°C-8°C. However, basal medium containing L-glutamine supports cell growth for up to 24 months when stored in refrigerated conditions.

**Formula**

<table>
<thead>
<tr>
<th></th>
<th>17-605</th>
<th>17-905</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-glutamine</td>
<td>29,230 mg/L</td>
<td>29,230 mg/L</td>
</tr>
<tr>
<td>NaCl</td>
<td>8,500 mg/L</td>
<td>8,500 mg/L</td>
</tr>
</tbody>
</table>

15-605 Powder
17-605 200 mM liquid
17-905 200 mM liquid screened for hybridoma production

**Usage**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EMEM 2 mM concentration</td>
<td>10 ml/L</td>
</tr>
<tr>
<td>DMEM 4 mM concentration</td>
<td>20 ml/L</td>
</tr>
<tr>
<td>RPMI 2.1 mM concentration</td>
<td>10.3 ml/L</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th></th>
<th>pH</th>
<th>Osmolality (mOsm)</th>
<th>Cell Growth Promotion (% of control)</th>
<th>Endotoxin (EU/ml)</th>
<th>Sterility</th>
<th>Moisture</th>
<th>Functional Test (% of control)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-605</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17-605</td>
<td>5.58 - 6.78</td>
<td>423 - 499</td>
<td>≥ 75%</td>
<td>≤ 2</td>
<td>--</td>
<td>≤ 1%</td>
<td>--</td>
</tr>
<tr>
<td>17-905</td>
<td>5.58 - 6.78</td>
<td>423 - 499</td>
<td>≥ 75%</td>
<td>≤ 0.5</td>
<td>Neg.</td>
<td>--</td>
<td>≥ 85%</td>
</tr>
</tbody>
</table>

**Storage**

-10°C to -20°C 17-605 and 17-905
2°C to 8°C 15-605

**Product Use Statement**
THESE PRODUCTS ARE FOR RESEARCH USE ONLY. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or in vitro procedures.

**Ordering Information**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-605C</td>
<td>200 mM L-glutamine</td>
<td>50 ml</td>
</tr>
<tr>
<td>17-605E</td>
<td>200 mM L-glutamine</td>
<td>100 ml</td>
</tr>
<tr>
<td>17-605F</td>
<td>200 mM L-glutamine</td>
<td>500 ml</td>
</tr>
<tr>
<td>17-905C</td>
<td>200 mM L-glutamine</td>
<td>50 ml</td>
</tr>
<tr>
<td>15-605G</td>
<td>L-glutamine Powder</td>
<td>25 g</td>
</tr>
</tbody>
</table>

TS-15-605-4 11/09