### 784. NATRONIELLA MEDIUM

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>KH$_2$PO$_4$</td>
<td>0.2 g</td>
</tr>
<tr>
<td>MgCl$_2$ x 6 H$_2$O</td>
<td>0.1 g</td>
</tr>
<tr>
<td>NH$_4$Cl</td>
<td>1.0 g</td>
</tr>
<tr>
<td>KCl</td>
<td>0.2 g</td>
</tr>
<tr>
<td>NaCl</td>
<td>16.0 g</td>
</tr>
<tr>
<td>Trace element solution SL-11 (see medium 722)</td>
<td>1.0 ml</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>0.2 g</td>
</tr>
<tr>
<td>Na-resazurin solution (0.1% w/v)</td>
<td>0.5 ml</td>
</tr>
<tr>
<td>Na$_2$CO$_3$</td>
<td>68.0 g</td>
</tr>
<tr>
<td>NaHCO$_3$</td>
<td>38.0 g</td>
</tr>
<tr>
<td>Ethanol</td>
<td>5.0 ml</td>
</tr>
<tr>
<td>Vitamin solution (see medium 141)</td>
<td>10.0 ml</td>
</tr>
<tr>
<td>Na$_2$S x 9 H$_2$O</td>
<td>1.0 g</td>
</tr>
<tr>
<td>Distilled water</td>
<td>1000.0 ml</td>
</tr>
</tbody>
</table>

Dissolve ingredients except carbonate, bicarbonate, ethanol, vitamins and sulfide. Sparge medium with 100% N$_2$ gas for 30 – 45 min to make it anoxic. Add and dissolve carbonates and sulfide while gassing the head space only. Dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Before use add ethanol and vitamins from sterile anoxic stock solution prepared under 100% N$_2$ gas. Vitamins are sterilized by filtration. Adjust pH of the complete medium to 9.5 – 10.0, if necessary.

For DSM 24923 omit ethanol and add to the autoclaved medium 2.0 g/l Na$_2$S$_2$O$_3$ x 5 H$_2$O from an anoxic stock solution prepared under 100% N$_2$ gas atmosphere and sterilized by filtration.