For isolation and differentiation of Streptococcus agalactiae (GBS)
CHROMagar™ StrepB

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**Background**

GBS in pregnant women: The Group B Streptococci (GBS), also known under the name of *Streptococcus agalactiae*, are the cause of numerous infections in adults but mostly an important cause of serious neonatal infections, occurring in the three first weeks of life. Studies indicate that approximately 12-27% of pregnant women are colonised by GBS. (WHO, Infectious diseases, Group B Streptococcus). Detecting vaginal (and in some countries also rectal) colonisation by GBS in pregnant women is the most effective strategy to prevent infection transmission during baby delivery.

Worldwide, official guidelines recommend prenatal screening of GBS in the last month of pregnancy. In GBS-carrying women, this screening allows determining the need of intrapartum antibiotic prophylaxis, which has been proved effective in preventing the infections occurring in the first week of life (known as early-onset GBS infections).

**Invasive GBS disease:** In addition to the neonatal infection issue, GBS infections have been frequently observed in immunodepressed people: adults with diabetes, breast cancer, cirrhosis or neurological impairment. This appears by soft tissue infection, bone infections, pneumonia or less frequently, meningitis. The elderly have a high rate of mortality when invaded by GBS. (WHO/ Clin Infect Dis. 2001 Aug 15;33(4):556-61. Epub 2001 Jul 20).

It is thus essential to detect invasive GBS disease to limit (I) the patient treatment period and the costs involved, (II) the emergence of resistance in *Streptococci*.

**Medium Performance**

Compared to CNA Blood Agar and Granada:

**1.** Easy Interpretation

Easier reading thanks to an intense mauve colony colouration.

**2.** High Sensitivity

Detection of GBS, including non-haemolytic strains, with sensitivity close to 100%.

**3.** High Specificity

Differentiation of GBS from other bacteria by selective inhibition or by counter-colouration.

**4.** Fast

Results in 18-24 h.

**5.** Simplicity

Incubation in aerobic conditions. No need of CO₂. Confirmation by latex agglutination can be performed directly from the colony.

**Medium Description**

<table>
<thead>
<tr>
<th>Powder Base</th>
<th>Total ............................................................... 44.7 g/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Agar ............................................................. 15.0</td>
</tr>
<tr>
<td></td>
<td>Peptones and yeast extract ........................................ 20.0</td>
</tr>
<tr>
<td></td>
<td>Salts ............................................................. 7.5</td>
</tr>
<tr>
<td></td>
<td>Chromogenic mix ................................................ 2.2</td>
</tr>
<tr>
<td></td>
<td>Storage at 15/30°C - pH: 7.3 +/- 0.2 .......................... 2 years</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2 Supplements (included in the pack)</th>
<th>1st: Liquid form...... 2g/L</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Storage at 15/30°C ..........</td>
</tr>
<tr>
<td></td>
<td>Shelf Life ................. 3 years</td>
</tr>
<tr>
<td></td>
<td>2nd: Powder............ 0.25g/L</td>
</tr>
<tr>
<td></td>
<td>Storage at 2/8°C .......... 2 years</td>
</tr>
</tbody>
</table>

**Usual Samples**

vaginal samples, rectal swabs, faeces, urine

**Procedure**

Direct Streaking.

Possible Prior Todd Hewitt /LIM enrichment.

Incubation 18-24h at 37°C. Aerobic conditions.

**Scientific Publications on this product:** available on www.CHROMagar.com

Please read carefully the instructions for use (IFU document) available on www.CHROMagar.com

**Quality Control Strains**

- *S. agalactiae* ATCC® 12386 ................ mauve
- *S. agalactiae* ATCC® 13813 ................ mauve
- *E. faecalis* ATCC® 29212 .................. steel blue
- *E. coli* ATCC® 25922 ....................... inhibited
- *C. albicans* ATCC® 10231 ............... inhibited

ATCC® is a registered trademark of the American Type Culture Collection

**Order References**

Please use these product references when contacting your local distributor:

5000 ml pack ............. SB282
25 L pack ................. SB283-25
Bulk .................. on request

Manufacturer: CHROMagar
4 place du 18 juin 1940 75006 Paris - France
Email: CHROMagar@CHROMagar.com
Website: www.CHROMagar.com
Find your nearest distributor on www.CHROMagar.com/contact