

CHROMagar™ StrepB

Instructions For Use
For Research Use Only (RUO).
Not for use in diagnostic procedures.

ENGLISH

Instructions For Use

MEDIUM PURPOSE

Chromogenic medium for the isolation and differentiation of Group B *Streptococcus* (*S.agalactiae*).

COMPOSITION

The product is composed of a powder base (B) and 2 supplements (S1 + S2).

Product	=	Base (B)	+	Supplement S1	+	Supplement S2
Total g/L		44.7 g/L		8 ml/L		0.25 g/L
Composition g/L		Agar 15.0 Salts 7.5 Peptones and yeast extract 20.0 Chromogenic mix 2.2		Growth factors mix		Selective mix 0.25
Aspect		Powder Form		Liquid Form		Powder Form
STORAGE		15/30°C		15/30°C		2/8°C
FINAL MEDIA pH		7.3 +/- 0.2				

Need some Technical Documents?

Available for download on www.CHROMagar.com

- Certificate of Analysis (CoA) --> One per Lot
- Material Safety Data Sheet (MSDS)

PREPARATION (Calculation for 1L)

Step 1

Base + S1

- Disperse slowly 44.7 g of powder base in 1L of purified water.
- Add 8 ml of supplement S1 into slurry.
- Stir until agar is well thickened.
- Autoclave at 121°C during 15 min.
- Cool at 45/50°C keeping on stirring.

Step 2

S2

- In a transparent vessel, add 250 mg of supplement S2 in 10 ml of purified water.
- Place under agitation with a magnetic stirring until S2 is solubilized.

Step 3

Base + S1 + S2

- Filter sterilise and aseptically add 10ml of S2 preparation into (base + S1) slurry cooled at 45/50°C while mixing.
- Swirl or stir gently to homogenize.

Step 4

Pouring

- Pour into sterile Petri dishes.
 - Let it solidify and dry.
- Once dried, the appearance of the plates is **translucent grey**.

Storage

- Store in the dark before use.
- Prepared media plates can be kept for one day at room temperature.
- Plates can be stored for up to 2 months under refrigeration (2/8°C) if properly prepared and protected from light and dehydration.

INOCULATION

Related samples can be processed by direct streaking on the plate, as well as prior appropriate enrichment step in Todd Hewitt/LIM broth (CDC recommendations).

- If the agar plate has been refrigerated, allow to warm to room temperature before inoculation.
- Streak sample onto plate.
- Incubate in aerobic conditions at 37°C for 18-24 hours.

Typical Samples

e.g. vaginal, ano vaginal,
urine, gastric fluid

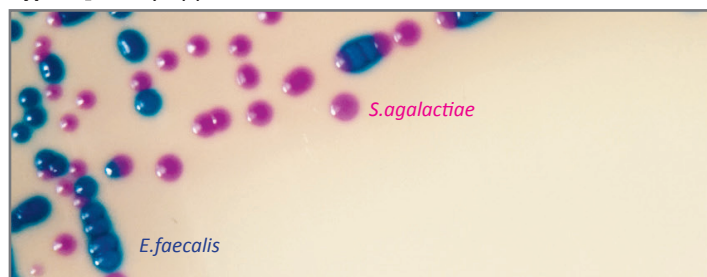
Possible enrichment step
Direct streaking
or spreading technique

CHROMagar™ StrepB

INTERPRETATION

Microorganism	Typical colony appearance
<i>Streptococcus agalactiae</i> (group B)	→ mauve
<i>Enterococcus</i> species	→ steel blue
<i>Lactobacilli, leuconostoc, lactococci</i>	→ light pink Scanty growth to inhibited
Other microorganism	→ blue, colourless or inhibited

Typical colony appearance



The pictures shown are not contractual.

LIMITATIONS

- Incubation in CO₂ may result in false positive cultures.
- Rare strains of Group B *Streptococcus* may require an additional 24h of incubation for a satisfactory colony size.
- Some strains of C, F & G Groups Streptococci may appear as mauve colonies.
- Some *Aerococcus* strains may appear as pale mauve-violet colonies.
- Most of Group A *Streptococcus* grow mauve as false positive. However, they can be differentiated with PYR test :
PYR(+) --> *StrepA* ; PYR(-) --> *StrepB*
- Few strains of *Staphylococcus* may appear as mauve colonies. However, they can be differentiated by a Catalase test :
Catalase (-) --> *StrepB* ; Catalase (+) --> *Staphylococcus*.
- Final identification may require additional testing such as biochemical or immunological test. Latex agglutination confirmation test can be performed directly from the plates on suspected colonies.

QUALITY CONTROL

Please perform Quality Control according to the use of the medium and the local QC regulations and norms. Good preparation of the medium can be tested, isolating the ATCC strains below:

Microorganism	Typical colony appearance
<i>S.agalactiae</i> ATCC® 12386	→ mauve

Microorganism	Typical colony appearance
<i>S.agalactiae</i> ATCC® 13813	→ mauve
<i>E.faecalis</i> ATCC® 29212	→ steel blue
<i>E.coli</i> ATCC® 25922	→ inhibited
<i>C.albicans</i> ATCC® 10231	→ inhibited

WARNINGS

- Do not use plates if they show any evidence of contamination or any sign of deterioration.
- Do not use the product beyond its expiry date or if product shows any evidence of contamination or any sign of deterioration.
- For Research Use Only. Not for use in Diagnostic Procedure. Performance has not been established. This laboratory product should be used only by trained personnel in compliance with good laboratory practices.
- Any change or modification in the procedure may affect the results.
- Any change or modification of the required storage temperature may affect the performance of the product.
- Unappropriate storage may affect the shelf life of the product.
- Recap the bottles/vials tightly after each preparation and keep them in a low humidity environment, protected from moisture and light.
- For a good microbial detection: collection and transport of specimen should be well handled and adapted to the particular specimen according to good laboratory practices.

DISPOSAL OF WASTE

After use, all plates and any other contaminated materials must be sterilized or disposed of by appropriate internal procedures and in accordance with local legislations. Plates can be destroyed by autoclaving at 121°C for at least 20 minutes.

REFERENCES

Please refer to our website page «Publications» for scientific publications about this particular product.

Web link: <http://www.chromagar.com/publication.php>

IFU/LABEL INDEX

- Quantity of powder sufficient for X liters of media
- Expiry date
- Required storage temperature
- Store away from humidity

Pack Size	Ordering References	Base (B)	Supplement S1	Supplement S2
5000 ml = 250 Tests of 20ml	SB282	SB282/B Weight: 223.5 gr	SB282/S1 Volume: 40 ml	SB282/S2 Weight: 1.25 gr
25 L = 1250 Tests of 20ml	SB283-25	SB283-25/B Weight: 1117.5 gr	SB283-25/S1 Volume: 200 ml	SB283-25/S2 Weight: 6.25 gr

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