CHROMAGAR ESBL

Intended use: for overnight detection of Gram-negative bacteria producing Extended Spectrum Beta-Lactamase. For *in vitro* diagnostics use only.

1. Product summary and explanation: for detection of Gram-negative bacteria producing Extended Spectrum Beta-Lactamase.

2.

Formula / Liter:		**Supplements / Liter:**	
Chromogenic mix	1,0 g	Selective mix	0,57 g
Pepton and yeast extract	17,0 g		
Agar	15,0 g		

3. pH: 7,0 ± 0,2 at 25°C.

4. Preparation: Suspend the medium on the proportion of 33,0 g purified water. Disperse powder slowly in water by rotating for swelling of the agar. Heat and bring to boiling (100°C) While swirling or stirring regularly and autoclave at 121°C during 15 min. Cool in a water to 45-50°C, swirling gently. Aliquote the required supplement powder for 570 mg/l final. Vitrex this supplement to homogenise and add to melted and cooled CHROMagar Orientation. Pour into sterile Petri dishes and allow to gel and dry.

5. Inoculation: If the agar plate has been refrigerated, allow to warm to room temperature before inoculation. Streak sample onto plate and incubate at 37°C for 18 – 24 hours.

6. Performance and limitations: Final identification requires additional testing. Some *Pseudomonas spp.* and *Acinetobacter spp.*, widely-known to be frequently Multi Drug Resistant bacteria, could growth on the medium with typical colony aspects as expected on CHROMagar Orientation.

7. Quality control: cultural response at 37°C and examined for growth after 18 – 24 hours incubation:

Microorganism:	**Typical colony appearance:**
Escherichia coli ATCC 25922	inhibited
Escherichia coli ATCC 35218	dark pink to reddish
Klebsiella pneumoniae ATCC 700603	metalic blue
Klebsiella pneumoniae ATCC 10031	inhibited
Proteus vulgaris (ESBL +)	brown halo
Proteus vulgaris ATCC 8427	inhibited

8. Storage: Prepared media plates can be stored up to 3 months at 6 – 12°C. Protect from light.

9. Disposal of waste: After interpretation all plates should be destroyed by autoclaving at 121°C for at least 20 min.

10. Packaging: **ref. no. 1470** ready to use plates (1x10 pcs);

11. Expiration: ready to use plates – 90 days (total shelf life);.

12. References:

1. Evaluation of CHROMagar Orientation for Differentation and Presumptive Identification of Gram Negative Bacilli and *Enterococcus* species. Merlino J. *et al.* 1996 Journal of Clinical Microbiology, 34:1788-1793.
2. Comparison of three selective media for the recovery of Extended Spectrum □ -Lactamase (ESBL)-producing Enterobacteriaceae. M. Jones, A. Sweeney, E. Stoeppler, M. Miller, and P. Gilligan Clinical Microbiology-Immunology Laboratories UNC Hospitals 2011.
3. Evaluation of a chromogenic medium for extended-spectrum beta-lactamase (ESBL)-producing Enterobacteriaceae. Philippe Lagacé-Wiens et al. University of Manitoba, Canada. ECCMID Poster 2010.
4. -Evaluation of a chromogenic agar medium for the detection of extended-spectrum beta-lactamase producing Enterobacteriaceae. R.Saito. University of Tokyo hospital and Tokyo Medical & Dental University – Tokyo – Japan Letters in Applied Microbiology ISSN 0266 8254, 51, 704-706 ABSTRACT ONLY 2010.

13. Revison date: 2016/11/25

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