

CHROMAGAR mSuperCARBA

INSTRUCTION FOR USE READY-TO-USE PLATED MEDIA

For professional use

Intended use: CHROMagar mSuperCARBA is used for detection and isolation of Carbapenemase-producing *Enterobacteriaceae* (CPE). CHROMAGAR mSuperCARBA detection of wide spectrum of carbapenemase KPC; NDM; IMP, MBL and OXA including OXA48. The minimum limit of detection 10 cfu/ml.

Ref .	Type of medium:	Packaging:
1473	ready-to-use medium-plate	1x10 pcs (90 mm)

1. Principle: peptones are the nitrogen and vitamin sources in CHROMagar mSuperCARBA. Chromogenic mix permits detection and differentiation of the isolated Gram-negative bacteria producing *Enterobacteriaceae* (CPE) Selective mix inhibits the most of Gram-negative and Gram-positive bacteria. Agar is the solidifying agent.

2. Formula/Liter:

Chromogenic and selective mix	0.8 g
Peptones	20.0 g
Salt	5.0 g
Growth factors	1.7 g
Agar	15.0 g

Supplements/Liter:

Growth factor	2 ml
Selective mix	0.25 g

3. pH: 7.2 ± 0.2 at 25°C.

4. Appearance:

Prepared Appearance: prepared medium is clear and light straw.

5. Sample: all samples in which a Carbapenemase-producing *Enterobacteriaceae* (CPE) are expected.

6. Test procedure: if the agar plate has been refrigerated, allow to warm to room temperature before inoculation. Streak the specimen for isolation onto the surface of the medium. If the specimen is cultured from a swab, roll the swab gently over a small area of the surface at the edge, then streak from this area with a loop. Incubate plates aerobically at 35±2°C for 18-24 hours in an inverted position.

7. Results: after incubation time observe growth and colour of characteristic microorganisms. Identification of the microorganisms should be confirmed by biochemical test.

8. Quality control: perform quality control testing for both negative and positive reaction by inoculating a representative sample of plates with pure cultures of stable control organisms that produce known, desired reactions. Graso uses following strains for performing quality control. Please note that other strains can be used in accordance with applicable local, state and laboratory's standard Quality Control.

Microorganism:	Growth:
<i>Klebsiella pneumoniae</i> BAA-1705	good growth/dark blue colonies
<i>Enterococcus faecalis</i> ATCC 29212	no growth
<i>Klebsiella pneumoniae</i> ATCC 700603	no growth

9. Precautions: some strains may be encountered that grow poorly or fail to grow on this medium. Definite identification requires additional testing. Some strains showing a low level of carbapenem resistance may have an irregular to poor growth.

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

11. Storage: On receipt, store plates at 2-12°C away from direct sun light in an inverted position. Do not overload a refrigerator with excessive amounts of plates to avoid water condensation on the lids during storage. Plates must not come into direct contact with the inner walls of refrigerator, as the media may freeze, invalidating the tests.

Prepared plates, stored in their original sleeve wrapping at 2-12°C until just prior to use, may be inoculated up to the expiration date and incubated for recommended incubation times. Plates from opened stacks of 10 plates should be used for two weeks when stored in a clean area at 2 to 12°C. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or others signs of deterioration. Allow the medium to warm to the room temperature before inoculation.

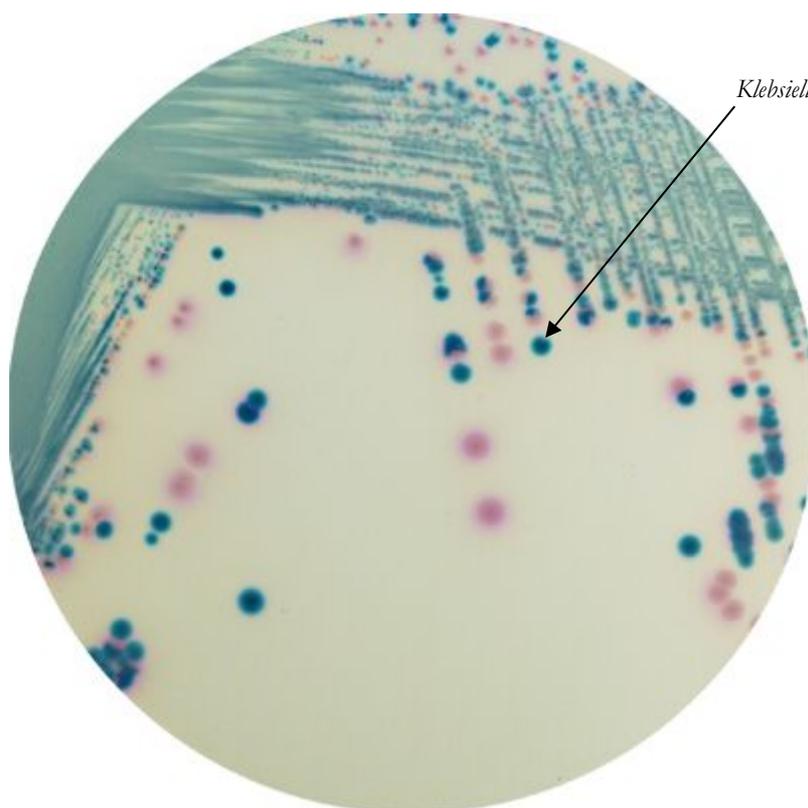
All microbiological media containing dyes or light-sensitive components should be protected from light and stored in the dark.

Note that shelf life of the growth media changes after the addition of supplements. Complete media containing protein supplement tend to degrade faster than basal media alone.

12. Shelf life: 56 days.

13. Required supplements not supplied together with medium base: not applicable.

14. References: available on request.



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