

# CHROMAGAR KPC

**INTENDED USE:**

Chromogenic medium for detection of gram-negative bacteria with a reduced susceptibility to most of the carbapenem agents.

**PRINCIPLE AND INTERPRETATION:**

Carbapenems are the last resort in treating many serious gram-negative infections. However, production of these enzymes results in resistance to penicillins, cephalosporins (i.e., cefepime, ceftriaxone), carbapenems (i.e., meropenem, ertapenem), and aztreonam, thereby making these pathogens truly multidrug-resistant and making their treatment very challenging.

**COMPOSITION:**

Ingredients	Gr/Liter
Peptone and yeast extract	17 gr
Chromogenic mix	1 gr
Selective mix	0,4
Agar	15 gr

\*\*\*Formula adjusted, standardized to suit performance parameters

pH: 7,0 ± 0,2

**PRECAUTIONS:**

For professional use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

**TEST PROCEDURE:**

Related samples can be processed by direct streaking on the plate.

- 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.

**QUALITY CONTROL:****1.Sterility Control:**

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

**2.Physical/Chemical Control**

pH: 7,0 ± 0,2

Apperance: Light amber

**3.Microbiological Control:** Incubation at 37 °C during 24 h.

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Klebsiella pneumoniae ATCC BAA 1705	10-100	Growth	Steel Blue
Staphylococcus aureus ATCC 25923	100-1000	Inhibition	-
Enterococcus faecalis ATCC 25212	100-1000	Inhibition	-
Candida albicans ATCC 10231	100-1000	Inhibition	-
Klebsiella pneumoniae ATCC 4352	100-1000	Inhibition	-

**STORAGE CONDITIONS AND SHELF LIFE:**

Store the prepared medium at 2 - 12°C. Use before expiry date on the label. Do not use beyond stated expiry date.

**DISPOSAL:**

Incubated prepared medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected plate should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

## PACKAGING:

**Katalog Number:** 02078

**Packaging:** Single wrap

**Content:** 10 plates/each package

## REFERENCES:

- 1-Identification of Klebsiella pneumoniae Carbapenemase-producing Klebsiella oxytoca in Clinical Isolates in Tehran Hospitals, Iran by Chromogenic Medium and Molecular Methods 2016 Majid Validi, Mohammad Mehdi Soltan Dallal, Masoumeh Douraghi, Jalil Fallah Mehrabadi, Abbas Rahimi Foroushani - Tehran University of Medical Sciences, Tehran, Iran
- 2-Clinical Microbiology costs of methods of active surveillance for Klebsiella pneumoniae Carbapenemase-producing Enterobacteriaceae 2014 Amy J. Mather, MD; Melinda Poulter, PhD; Dawn Dirks, MS; Joanne Carroll, BS; Costi D. Sifri, MD. Kevin C. Hazen, PD The University of Chicago Press
- 3-Primer aislamiento de una Escherichia coli con resistencia NDM-1 en Panama 2014 Alexis Solis, T.M. Complejo Hospitalario Dr. Arnulfo Arias Madrid - Panama
- 4-Laboratory evaluation of different agar media for isolation of carbapenem-resistant Acinetobacter spp. 2014 J.Moran-Gilad; A.Adler; D.Schwartz; S.Navon-Venezia; Y.Carmeli Eur J Clin Microbiol Infect Dis
- 5-Environmental Contamination by Carbapenem-Resistant Enterobacteriaceae 2013 J. Clin. Microbiol. 2013, 51(1):177. DOI:10.1128/JCM.01992-12. Navon-Venezia and Y. Carmeli A. Lerner, A. Adler, J. Abu-Hanna, I. Meitus, S.
- 6-Comparative evaluation of selective agar media, MALDI-TOF MS, PCR and phenotypic methods for the detection of Carbapenemase-producing Enterobacteriaceae. 2013 M. Holfelder, U. Betz, D. Bertsch, U. Eigner (Heidelberg, DE) 23rd ECCMID, Berlin, 27.-30. April 2013 P 681



Aseptic Sterile



Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature  
Limitation



Do not reuse



Contains sufficient  
for <n> tests



Look at user manual



Manufacturer