

CN (Cetrimide) Agar (KFCC)



Selective medium used for the isolation and identification of *Pseudomonas aeruginosa*.

• CONTENTS (Liter)

Gelatin Peptone	20.0 g
Magnesium Chloride	3.0 g
Potassium Sulfate	10.0 g
Cetrimide	0.3 g
Agar	13.6 g
Final pH = 7.2 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 46.9 G of powder in 1 L of distilled or deionized water. Add 10 mL of Glycerol supplement (MB-G1821). Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Dispense in petri dishes.

• INTERPRETATION

CN (Cetrimide) Agar (KFCC) is a selective medium used for the isolation and identification of *Pseudomonas aeruginosa*. Gelatine peptone provides nitrogen, carbon and nutrient. Magnesium chloride and potassium sulfate promote production of pigment. Cetrimide inhibits the growth of many microorganisms except *Pseudomonas* spp.. Agar is the solidifying agent. Glycerol is added as a carbon source and reduces the water activity from 0.999 to 0.95 for reducing bacterial growth.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 30 - 35 °C for 24 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: slightly opalescent.

Color: light amber.

Incubation conditions: 30 - 35 °C / 24 - 48 hours.

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Pseudomonas aeruginosa</i>	27853	50-100	good	yellow-green colonies
<i>Escherichia coli</i>	25922	10 ² -10 ³	Inhibited	-

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Lowbury and Collins (1955) J. Clin. Pathol. 8:47.
2. King, Ward and Raney. 1954. J. LabClin. Med. 44:301.
3. Lowbury. 1951. J. Clin. Pathol. 4:66.
4. Brown and Lowbury. 1965. J. Clin. Pathol. 18:752.
5. Kiska and Gilligan. 1999. In Murray, Baron, Pfaller, Tenover and Tenover (ed.), Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.
6. Refer to the KFCC.

• PACKAGE

Cat. No : MB-C2137C CN (Cetrimide) Agar (KFCC)	500 G
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