

NAC Agar

Medium used for the isolation and cultivation of *Pseudomonas aeruginosa*.

* Equally use with KFCC.

• CONTENTS (Liter)

Peptone	20.0 g
Dipotassium Phosphate	0.3 g
Magnesium Sulfate	0.2 g
Cetrimide	0.2 g
Nalidixic Acid	0.015 g
Agar	15.0 g
Final pH = 7.4 ± 0.2 at 25°C	

• PROCEDURE

Suspend 35.7 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. DO NOT AUTOCLAVE. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

NAC Agar is a medium for the isolation and cultivation of *Pseudomonas aeruginosa*. *Pseudomonas aeruginosa* develops a colony with yellow-greenish fluorescent on the medium. Peptone provides nitrogen, carbon, vitamins and minerals. Dipotassium phosphate buffers the medium. Magnesium sulfate stimulates pyocyanin production. Cetrimide and nalidixic acid is an selective agent. Both gram-positive and gram-negative bacteria other than *Pseudomonas aeruginosa* are almost inhibited in the medium. Agar is the solidifying agent.

• 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: clear to slightly opalescent

Color: light amber

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

Microorganism	ATCC	Inoculum CFU	Growth	Characteristic
<i>Pseudomonas aeruginosa</i>	27853	50-100	good	yellow-green colonies
<i>Escherichia coli</i>	25922	≥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 are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Refer to the KFCC.

• PACKAGE

Cat. No : MB-N0868 NAC Agar	500 G
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• MICROBIAL CULTURE IMAGES



Pseudomonas aeruginosa ATCC 27853 (100 CFU)



Escherichia coli ATCC 25922 ($\geq 10^3$ CFU) (inhibited)

Incubation conditions : 30 - 35°C 24 - 48hr