

Agar Medium N(Cetrimide Agar)

Catalog : HB5184-11-500

Agar Medium N(Cetrimide Agar) is used for the selective isolation and presumptive identification of *Pseudomonas aeruginosa*.

Approximate Formula:

Ingredients	gm/liter
Pancreatic Digest of Gelatin	20.0
Magnesium chloride	1.4
Dipotassium Sulphate	10.0
Cetrimide	0.3
Agar	13.6

Final pH 7.2±0.2 at 25°C

*Adjusted and/or supplemented as required to meet performance criteria.

Directions:

Suspend 45.3g of the medium in one liter of distilled water or deionized water. Mix well and heat with frequent agitation. Add 10ml glycerol, heat to boiling for 1 min with shaking. Dispense into flasks. Sterilize in an autoclave at 121°C (15 lbs.) For 15 minutes. When cooling to 50°C, pour into Petri dishes..

Principle and Interpretation:

Pancreatic digest of gelatin supplies the nutrients necessary to support growth. The production of pyocyanin is stimulated by the magnesium chloride and dipotassium Sulphate in the medium. Cetrimide is a quaternary ammonium, cationic detergent compound, which is inhibitory to a wide variety of bacterial species including *Pseudomonas* species other than *P. aeruginosa*. Agar is a solidifying agent. Cetrimide Agar is supplemented with 1% glycerol as a source of carbon.

Appearance:

Dehydrated medium is a free-flowing yellowish powder. The prepared medium is a kind of milky-white gel.

Precautions:

This medium is for laboratory use only. Dried medium which is past shelf life, caking or color variation cannot be used.

Storage conditions and Shelf life:

Agar Medium N(Cetrimide Agar) must be stored tightly capped in the original container at 5-30°C. The dehydrated medium has a shelf life of 5 years from date of manufacturing. Prepared medium may be stored, out of direct light at 2-8°C.

Quality control:

Prepare the culture medium as per label directions. Inoculate and incubate at 30-35°C for 24-48 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Recovery	Remarks
<i>Pseudomonas aeruginosa</i>	ATCC 9027	20-200	Luxuriant	≥70%	Green colonies
<i>Pseudomonas aeruginosa</i>	ATCC 27853	20-200	Luxuriant	≥70%	Green colonies
<i>Escherichia coli</i>	ATCC 8739	>10 ³	Inhibited	/	/
<i>Staphylococcus aureus</i>	ATCC 6538	>10 ³	Inhibited	/	/

References:

1. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The nationalformulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Rockville, Md.
2. European Directorate for the Quality of Medicines and Healthcare. 2008. The European pharmacopoeia, 6th ed., Supp. 1, 4-1-2008, online. European Directorate for the Quality of Medicines and Healthcare, Council of Europe, 226 Avenue de Colmar BP907-, F-67029 Strasbourg Cedex 1, France.