

Pseudomonas CFC Selective Agar

Catalog : HB8689-2-250

Pseudomonas CFC Selective Agar is used for selective isolation and culture of pseudomonas.

Approximate Formula:

Ingredients	gm/liter
Pancreatic digest of gelatin	16.0
Casein acid hydrolysate	10.0
Potassium sulfate	10.0
Magnesium chloride anhydrous	1.4
Agar	12.0
Final pH 7.1±0.2 at 25°C	

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

Directions:

Suspend 49.4g of the medium and 10.0g of glycerol in one liter of distilled water or deionized water. Mix well and heat with frequent agitation to completely dissolve the powder. Dispense into 200mL/bottle. Sterilize in an autoclave at 121°C (15 lbs.) for 15 minutes. When cooling to about 50°C, add one piece of *Pseudomonas CFC* selective medium supplement (Add 1ml sterile distilled water to redissolve before use) to each bottle. Mix thoroughly.

Principle and Interpretation:

Pancreatic digest of gelatin and casein acid hydrolysate provide the necessary nitrogen compounds, carbon and vitamins for the growth of bacteria. Potassium sulfate and magnesium chloride anhydrous provides essential ions for fluorescin production. Magnesium and potassium ions promote pyocyanin production. Glycerol acts as a source of energy and enhances pigment production. Cetrime, Fucidin and Cephalosporin can inhibit the Gram-positive and Gram-negative accompanying flora. Agar is the solidifying agent.

Appearance:

Dehydrated medium is a free-flowing yellowish powder. The prepared medium is a kind of milk-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:

Pseudomonas CFC Selective 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 36±1°C for 24-48 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Recovery	Remarks
<i>Pseudomonas aeruginosa</i>	ATCC9027	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. ISO International Standardisation Organisation. Meat and meat products - Enumeration of presumptive *Pseudomonas* spp. EN ISO 13720:2010.
2. ISO International Standardisation Organisation. Water quality -- Detection and enumeration of *Pseudomonas aeruginosa* -- Method by membrane filtration. EN ISO 16266:2006.
3. ISO International Standardisation Organisation. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media. EN ISO 11133:2014.
4. Mead, G.C. and Adams, B.W. (1977): A selective medium for the rapid isolation of *Pseudomonas* associated with poultry meat spoilage. Br. Poult. Sci. 18: 661 - 670.