

B695	PSEUDOMONAS AGAR BASE		
Formula			
Ingredients :		gms/lit.	
Gelatin peptone		16.00	
Tryptone		10.00	
Potassium sulphate		10.00	
Magnesium chloride, anhydrous		1.40	
Agar		11.00	
Final pH (at 25°C) : 7.1 ± 0.2			
Directions :			
Suspend 24.2 grams in 500 ml distilled water containing 5 ml glycerol. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add sterile rehydrated contents of either Cetrinix Supplement (BF092) or CFC Supplement (BF093) as desired. Mix well and pour into sterile Petri plates. Note: Do not keep the molten agar for longer than 4 hours.			
Principle :			
Tryptone and gelatin peptone supplies nitrogenous and carbonaceous compounds, long chain amino acids, and other essential growth nutrients for Pseudomonas species. Potassium sulphate and magnesium chloride to enhance pigment production. Agar is the solidifying agent. Cetrinix supplement suppresses Klebsiella, proteus and providencia species. CFC supplement is specific for isolation of Pseudomonas species.			
QC Tests - (I) Dehydrated Medium			
Colour :		Cream to yellow	
Appearance :		Homogeneous Free Flowing powder	
(II) Rehydrated medium			
pH (post autoclaving/heating) :		7.1 ± 0.2	
Colour (post autoclaving/heating) :		Yellow	
Clarity (post autoclaving/heating) :		Clear to slightly opalescent	
(III) Q.C. Test Microbiological			
Cultural characteristics observed after an incubation for 40-48 hours. Recovery rate is considered as 100% for growth on Soyabean Casein Digest Agar (B039).			
MICROORGANISM (ATCC)	GROWTH ON CETRINIX SUPPLEMENT(BF092) (34-38°C)	GROWTH ON CFC SUPPLEMENT(BF093) (24-26°C)	Colour/ Fluorescence under uv
Pseudomonas aeruginosa (27853)	Good-luxuriant	--	Blue-green /positive
Pseudomonas aeruginosa (9027)	Good-luxuriant	--	Blue-green /positive
Pseudomonas aeruginosa (10145)	Good-luxuriant	--	Blue-green /positive
Pseudomonas cepasia (10661)	-	Good-luxuriant	-
Pseudomonas fluorescens (13525)	-	Good-luxuriant	-
Pseudomonas fragi (4973)	-	Good-luxuriant	-
Proteus vulgaris (13315)	Inhibited	-	-
Enterococcus faecalis (29212)	Inhibited	-	-
Enterococcus faecalis (19433)	Inhibited	-	-
Escherichia coli (25922)	Inhibited	Inhibited	-
Escherichia coli (8739)	Inhibited	Inhibited	-
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.	

Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
	2. Occasionally, a Pseudomonas culture is encountered that will produce small amounts of pigment in the medium. When this happens, a yellow – green colour will appear on Pseudomonas Agar F or a blue – green colour on Pseudomonas Agar P. If a blue – green colour occurs on Pseudomonas Agar P, confirmation of the presence of pyocyanin can be made by extraction with chloroform (CHCl ₃).				
	3. The formation of nonpigmented colonies does not completely rule out a Pseudomonas aeruginosa isolate.				
	4. A pyocyanin – producing Pseudomonas strain will usually also produce fluorescein. It must, therefore, be differentiated from other simple fluorescent pseudomonads by other means. Temperature can be a determining factor as most other fluorescent strains will not grow at 35°C. Rather, they grow at 25-30°C.				
Use :	For selective isolation of Pseudomonas species from environmental samples, food and water samples with added supplements.				
Storage :	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B695	48.4g/l	10.330L	7.1 ± 0.2	Cetrinix Supplement (BF092) or CFC supplement (BF093)	121°C / 15 minutes

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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