BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B420	**PHOTOBACTERIUM BROTH**

Formula

Ingredients :	**Gms/lit.**
Casein enzymic hydrolysate	5.00
Yeast extract	2.50
Sodium chloride	30.00
Ammonium chloride	0.30
Magnesium sulphate	0.30
Ferric chloride	0.01
Calcium carbonate	1.00
Monopotassium dihydrogen phosphate	3.00
Sodium glycerophosphate	23.50

Final pH (at 25°C) : 7.0± 0.2

Directions :

Suspend 65.61 gms. in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Before pouring mix well to evenly distribute slight precipitate formed.

Principle :

Casein enzymic hydrolysate and yeast extract provide nitrogenous compounds, carbon, sulphur, trace nutrients, vitamin B complex, which are essential for the growth of photobacteria. Potassium dihydrogen phosphate helps in maintaining the buffering capacity of the medium. Chlorides, sulphate and carbonate and also the glycerophosphate helps for luminescence. The intensity of luminescence is related to the aeration of culture. The greater the oxygen supply, the greater will be luminescence.

QC Tests – (I)Dehydrated Medium		
	Colour :	Off White to yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.0 ± 0.2
	Colour (post autoclaving/heating) :	Light amber
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after 18 - 24 hrs at 25-30°C.	

	MICROORGANISM (ATCC)	GROWTH	LUMINESCENCE	
	Lucibacteriumharveyi (14126)	Good – luxuriant	+	
	Vibrio fischeri (7744)	Good – luxuriant	+	

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.
Use :	For cultivation of demonstration of fuminiscence of photobacteria.
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
B420	65.61g/l	7.620L	7.0 ± 0.2	NIL	121^0C / 15 minutes

Refer disclaimer Overleaf

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Disclaimer:

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