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TECHNICAL SHEET

B920	**AMPICILLIN DEXTRIN AGAR BASE**
Formula	
Ingredients :	**gms/lit.**
Tryptose	5.00
Dextrin	10.00
Yeast extract	2.00
Potassium chloride	2.00
Sodium chloride	3.00
Magnesium sulphate	0.02
Iron (III) Chloride	0.10
Bromothymol blue	0.08
Agar	15.00
Final pH (at 25°C) : 8.0 ± 0.2	

Directions :

Suspend 37.38 grams in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add rehydrated contents of 1 vial of Ampicillin Dextrin Selective supplement (BF001). Mix well and pour into sterile petri plates.

Principle :

Tryptose and yeast extract provide nitrogenous compounds and essential growth nutrients. Sodium chloride maintains osmotic equilibrium. Ampicillin increases selectivity of medium. Aeromonas forms acid from dextrins which is indicated by pH indicator Bromothymol blue.
After 24 hrs.growth on this agr colonies are sprayed with Nadi reagent (1% solution of N,N,N,N-tetramethyl-para phenylene diammonium dichloride).Positive reaction is indicated by purple color at the periphery of the colony. Dextrin fermentation is also indicated by yellow colonies. Aeromonas colonies are large yellow convex with purple periphery.

QC Tests – (I)Dehydrated Medium		
	Colour :	Yellow to greenish yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	8.0 ± 0.2
	Colour (post autoclaving/heating) :	Dark green
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed after 24 hrs. at 35-37°C.	
	MICROORGANISM (ATCC)	GROWTH
	Aeromonas hydrophila (7966)	Luxuriant
	Escherichia coli (25922)	Poor – fair
	Staphylococcus aureus (25923)	Partially to completely inhibited
	Key: + = positive, clearing around the colony.	

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 differential and selective isolation of Aeromonas species from water samples by membrane filter technique.
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
B920	37.38 g/l	13.37 L	8.0 ± 0.2	Ampicillin Dextrin selective supplement	121^0C /15 min.

Refer disclaimer Overleaf

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Disclaimer:

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