

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		0.20				
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 (BF159). 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 dextrans which is indicated by pH indicator Bromothymol blue. After 24 hours growth on this agar 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 with added Ampicillin Dextrin Selective Supplement (BF159), after an incubation at 35-37°C for 18-24 hours.						
MICROORGANISM (ATCC)		GROWTH				
Aeromonas hydrophila (7966)		Luxuriant				
Escherichia coli (25922)		Poor - fair				
Staphylococcus aureus (25923)		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.				
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 (BF159)	121°C /15 min.