

**TECHNICAL SHEET**

<b>B920</b>		<b>AMPICILLIN DEXTRIN AGAR BASE</b>				
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
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						
<b>Directions :</b>						
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.						
<b>Principle :</b>						
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 hrs. 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.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Yellow to greenish yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		8.0 ± 0.2				
Colour (post autoclaving/heating) :		Dark green				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 24 hrs. at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH				
Aeromonas hydrophila (7966)		Luxuriant, bright yellow				
Escherichia coli (25922)		None – poor				
Staphylococcus aureus (25923)		Partially to completely inhibited				
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		For differential and selective isolation of Aeromonas species from water samples by membrane filter technique.				
<b>Storage :</b>		Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B920</b>		37.38 g/l	13.37 L	8.0 ± 0.2	Ampicillin Dextrin selective supplement (BF001)	121°C /15 min.

**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 BIOMARK LABORATORIES publications.

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