

**TECHNICAL SHEET**

<b>B500</b>	<b>DIPHThERIA VIRULENCE AGAR BASE</b>			
<b>Formula</b>				
<b>Ingredients :</b>		<b>gms/lit.</b>		
Proteose peptone		20.00		
Sodium chloride		2.50		
Agar		15.00		
Final pH (at 25°C) : 7.8 ± 0.2				
<b>Directions :</b>				
Suspend 37.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 55-60°C. Aseptically add 2 ml sterile KL Virulence Enrichment (BF049) and 0.5 ml sterile 1% Potassium Tellurite (BF010) to a 100 mm Petri plate and quickly add 10 ml of sterile Diphtheria Virulence Agar Base. Before the medium solidifies, place a filter paper strip saturated with potent Diphtheria antitoxin across the diameter of the plate. Allow the strip to sink to the bottom of the plate. Inoculate the plate with heavy inoculum across the strip.				
<b>Principle :</b>				
Proteose peptone provides the carbon and nitrogen sources required for good growth of a wide variety of organisms and also for toxin production. Sodium chloride maintains the osmotic balance of the medium. Agar is incorporated as the solidifying agent. Potassium tellurite inhibits most gram-negative bacteria except <i>Corynebacterium</i> species, <i>Streptococcus mitis</i> , <i>Streptococcus salivarius</i> and <i>Enterococci</i> . <i>Staphylococcus epidermidis</i> may exhibit growth.				
<b>QC Tests – (I) Dehydrated Medium</b>				
Colour :		Light yellow		
Appearance :		Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>				
pH (post autoclaving/heating) :		7.8 ± 0.2		
Colour (post autoclaving/heating) :		Medium amber		
Clarity (post autoclaving/heating) :		Slightly opalescent gel forms in Petri plates		
<b>(III) Q.C. Test Microbiological</b>				
Cultural characteristics observed with added KL Virulence Enrichment (BF049) and 0.5 ml of 1% Potassium tellurite solution (BF010) after an incubation at 35-37°C for 24-72 hours.				
MICROORGANISM (ATCC )		GROWTH	LINE OF PRECIPITIN	
<i>Corynebacterium diphtheriae</i> type <i>gravis</i>		Luxuriant	+	
<i>Corynebacterium diphtheriae</i> type <i>intermedius</i>		Luxuriant	+	
<i>Corynebacterium diphtheriae</i> type <i>mitis</i>		Luxuriant	+	
<i>Staphylococcus epidermidis</i> (25923)		None – poor	-	
<i>Bacillus subtilis</i> (6633)		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 determining toxigenicity of <i>Corynebacterium diphtheriae</i> .		
<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>B500</b>	37.5g/l	13.33L	7.8 ± 0.2	diphtheria virulence supplement (BF049) and sterile 1% Potassium Tellurite (BF010)
				121°C / 15 minutes

Refer disclaimer Overleaf

**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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