

**TECHNICAL SHEET**

<b>B649</b>	<b>MODIFIED DUNCAN STRONG (DS) MEDIUM</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Proteose peptone	15.00				
Yeast extract	4.00				
Sodium thioglycollate	1.00				
Disodium phosphate	10.00				
Raffinose	4.00				
Final pH (at 25°C) : 7.8 ± 0.2					
<b>Directions :</b>					
Suspend 34 gms. in 1000ml distilled water and mix thoroughly. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Dispense into sterile tubes. Check one or two tubes for measuring the pH.					
<b>Principle :</b>					
Proteose peptone and yeast extract provide nitrogenous compounds and other nutrients for the growth. Sodium thioglycollate helps to create anaerobic conditions suitable for clostridial growth. Disodium phosphate acts as a buffering agent. Raffinose in the medium is fermented by Clostridium perfringens to produce acid within 72 hours.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :	Yellow				
Appearance :	Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :	7.8 ± 0.2				
Colour (post autoclaving/heating) :	Yellow				
Clarity (post autoclaving/heating) :	Clear				
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 48 –72 hrs.at 35-37°C.					
MICROORGANISM (ATCC )	GROWTH	RAFFINOSE FERMENTATION			
Clostridium perfringens (12924)	Good – luxuriant	+			
Clostridium sporogenes (11437)	Good – luxuriant	-			
<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 isolation and differentiation of Clostridium perfringens from other Clostridia from foods on the basis of raffinose fermentation.				
<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>B649</b>	34g/l	14.705L	7.8 ± 0.2	NIL	121°C / 15 minutes

**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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