

**TECHNICAL SHEET**

<b>B1391</b>	<b>DRIGALSKI SELECTIVE AGAR</b>		
<b>Formula</b>			
<b>Ingredients:</b>	<b>gms/lit.</b>		
Peptone	15.00		
Yeast Extract	3.00		
Meat Extract	3.00		
Sodium deoxycholate	1.00		
Sodium thiosulphate	1.00		
Lactose	15.00		
Crystal violet	0.005		
Bromothymol blue	0.080		
Agar	11.00		
Final pH (at 25°C) : 7.4 ± 0.2			
<b>Directions:</b>			
Suspend 49.09 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. Mix well and pour into sterile Petri plates.			
<b>Principle:</b>			
Peptone, yeast extract and meat extract provide nitrogenous nutrients to the organisms. Crystal violet and sodium deoxycholate inhibit the development of gram positive bacteria. Bromothymol blue is the pH indicator in the medium. The medium contains lactose as the source of carbon and fermentable carbohydrate. Lactose fermenters produce acid and thus change the colour to yellow with yellow zones. Lactose non-fermenters develop blue colonies on the medium due to alkalization. Non lactose fermenting gram-negative (enteric) pathogens (Salmonella, Shigella, Proteus, Pseudomonas) form blue to green colonies whereas lactose fermenting coliform organisms (E.coli, Klebsiella, Enterobacter) form yellow colonies due to acid production and decrease in pH.			
<b>QC Tests - (I) Dehydrated Medium</b>			
Colour :	Light yellow to greenish yellow		
Appearance:	Homogeneous Free Flowing powder, may have slight dye particles		
<b>(II) Rehydrated medium</b>			
pH (post autoclaving/heating):	7.4 ± 0.2		
Colour (post autoclaving/heating):	Green		
Clarity (post autoclaving/heating):	Clear to slightly opalescent		
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed after 18 -24 hrs.at 35-37°C.			
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY	
Klebsiella pneumoniae (13883)	good-luxuriant	yellow, mucoid	
Escherichia coli (25922)	Luxuriant	Yellow	
Salmonella Typhi (6539)	Luxuriant	blue to green	
Shigella flexneri (12022)	Luxuriant	blue to green	
Pseudomonas aeruginosa (27853)	Good	blue-green	
<b>Precautions :</b>	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.		
<b>Limitations :</b>	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>	Drigalski Selective Agar is used for the selective isolation of enterobacteria from urine, stool and other clinical samples. Enterobacteria are differentiated on the basis of their ability to ferment lactose		

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<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>B1391</b>	49.09g/l	10.185L	7.4 ± 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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