

TECHNICAL SHEET

B1114	SCHWARZ DIFFERENTIAL MEDIUM				
Formula					
Ingredients :					
	gms/lit.				
Peptic digest of animal tissue	5.00				
Yeast extract	3.00				
Malt extract	3.00				
Dextrose	10.00				
Basic fuchsin	0.47				
Sodium sulphite	2.92				
Dextrin	0.11				
Agar	20.00				
Final pH (at 25°C) : 6.9± 0.2					
Directions :					
Suspend 44.50 grams in 1000 ml distilled water. Heat to boiling with constant stirring for 15 minutes. DO NOT AUTOCLAVE. Cool to 45°C and pour into sterile plates. Efficacy of the plates can be improved by incubating them to 30°C for 18 hours before use.					
Principle :					
Malt extract, peptic digest of animal tissue and yeast extract provide necessary nutrients to support the growth of yeasts. Dextrose is the suitable carbohydrate for the growth of yeasts. Sodium sulphite and basic fuchsin inhibit the gram positive microorganisms.					
QC Tests - (I) Dehydrated Medium					
Colour :	Pinkish purple to Purple				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	6.9 ± 0.2				
Colour (post autoclaving/heating) :	Light pink				
Clarity (post autoclaving/heating) :	clear to slightly opalescent gel				
(III) Q.C. Test Microbiological					
Cultural response observed at 30°C for upto 4 days. (colour of plates darkens during incubation).					
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY			
Candida albicans(10231)	luxuriant	white to light pink raised colonies			
Candida kruisei(24408)	luxuriant	pink, rough, flat colonies			
Saccharomyces cerevisiae (9763)	luxuriant	pink colonies			
Precautions :					
1. For Laboratory Use.					
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.					
3. Basic fuchsin is a potential carcinogen and care should be taken to avoid inhalation of the powdered dye and contamination of the skin.					
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 :					
It is used in the brewing industry for the differentiation of brewing yeasts from wild yeasts.					
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
B1114	44.50 g/l	11.235 L	6.9± 0.2	Nil	DO NOT AUTOCLAVE.

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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