

TECHNICAL SHEET

B519		ORANGE SERUM AGAR			
Formula					
Ingredients :		gms/lit.			
Casein enzymic hydrolysate		10.00			
Yeast extract		3.00			
Dextrose		4.00			
Dipotassium phosphate		2.50			
Orange serum(solids from 200ml)		9.00			
Agar		17.00			
Final pH (at 25°C): 5.5 ± 0.2					
Directions :					
Suspend 45.5 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. AVOID OVERHEATING. Mix well and pour into sterile Petri plates.					
Principle :					
Casein enzymic hydrolysate provides essential nitrogenous nutrients while dextrose serves as the fermentable carbohydrate and energy source. Yeast extract supplies B- complex vitamins, which stimulate growth. Orange serum provides an optimal environment for the recovery of acid tolerant microorganisms from citrus fruit products.					
QC Tests – (I)Dehydrated Medium					
	Colour :	Cream to yellow			
	Appearance :	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	5.5 ± 0.2			
	Colour (post autoclaving/heating) :	Medium to dark amber			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III)Q.C. Test Microbiological					
	Cultural characteristics observed after an incubation at 35-37°C for 40-48 hours.(Fungal species are incubated at 25-30°C)				
	MICROORGANISM (ATCC)	GROWTH			
	Aspergillus niger (16404)	Good to luxuriant			
	Lactobacillus fermentum (9338)	Good to luxuriant			
	Lactobacillus acidophilus (4356)	Good to luxuriant			
	Leuconostoc mesenteroides (12291)	Good to luxuriant			
	Saccharomyces cerevisiae (9763)	Good to luxuriant			
	Candida albicans (10231)	Good to luxuriant			
Precautions:	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. 2. Orange Serum Agar is not a differential medium. Perform microscopic examination and biochemical tests to identify isolates to genus and species if necessary. 3. If Orange Serum Agar is divided into aliquots and allowed to solidify, remelt only once. Repeated heating may produce a softer medium.				
Use :	Recommended for cultivation and enumeration of microorganisms associated with the spoilage of citrus products, cultivation of Lactobacilli, other aciduric organisms and pathogenic fungi from food samples.				
Storage :	Dehydrated medium and prepared medium– Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B519	45.5 g/l	10.98 L	5.5 ± 0.2	Nil	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 BIOMARKLABORATORIES publications.

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