

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 :		For cultivation and enumeration of microorganisms associated with spoilage of citrus products. Cultivation of Lactobacilli and other aciduric organisms and pathogenic fungi.				
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.