

**TECHNICAL SHEET**

<b>B1418</b>	<b>TRYPTIC SOY YEAST EXTRACT AGAR(TSYEA)</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Enzymatic digest of casein		17.00				
Enzymatic digest of Soya meal		3.00				
Sodium chloride		5.00				
Dipotassium Hydrogen Phosphate		2.50				
Glucose		2.50				
Yeast Extract		6.00				
Agar		12.00				
Final pH (at 25°C) : 7.3 ± 0.2						
<b>Directions :</b>						
Suspend 48.0 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Distribute and sterilize by autoclaving at 15 lbs pressure (121°C) for 20 minutes. Mix well and pour in sterile Petri plates.						
<b>Principle :</b>						
Enzymatic digest of casein and enzymatic digest of Soya meal provide amino acids and other complex nitrogenous substances. Dextrose is the energy source. Dipotassium hydrogen phosphate buffers the medium. Yeast extract is the rich source of vitamin B complex.						
<b>QC Tests - (I)Dehydrated Medium</b>						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.3 ± 0.2				
Colour (post autoclaving/heating) :		Yellow				
Clarity (post autoclaving/heating) :		clear to slightly opalescent gel				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at 30-37°C for 24-48 hours.						
MICROORGANISM (ATCC )		GROWTH				
Listeria monocytogenes (19111)		good-luxuriant				
Listeria monocytogenes (19118)		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>		It is used for general growth media for the cultivation of Listeria spp. Recommended by International Organization for Standardization (ISO), 11290-1/2.				
<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>B1418</b>		48.0 g/l	10.416 L	7.3 ± 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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