

**TECHNICAL SHEET**

<b>B1442</b>	<b>YERSINIA ISOLATION AGAR</b>				
<b>Formula</b>					
<b>Ingredients:</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue		5.00			
Meat extract		5.00			
Yeast extract		5.00			
Lactose		10.00			
Sodium deoxycholate		10.00			
Sodium citrate		10.00			
Ox bile		8.50			
Sodium thiosulphate		8.50			
Ferric citrate		1.00			
Calcium chloride		1.00			
Neutral red		0.025			
Brilliant green		0.0003			
Agar		15.00			
Final pH (at 25°C) : 7.4± 0.2					
<b>Directions:</b>					
Suspend 79.02 gms. in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE OR OVERHEAT.					
<b>Principle:</b>					
Peptic digest of animal tissue, meat extract, yeast extract provides nitrogenous and carbonaceous compounds, vitamin B complex, trace elements and other essential growth nutrients. Neutral red acts as a pH indicator. Lactose is the fermentable carbohydrate. High amount of Sodium deoxycholate and ox-bile inhibit Enterobacteriaceae but not Yersinia enterocolitica. Brilliant green and sodium citrate suppresses growth of accompanying gram – positive bacteria. Within 24 hours of incubation at 29 – 30°C Yersinia enterocolitica and some species of Enterobacteriaceae exhibit scanty growth however, after 48 hours Yersinia enterocolitica colonies are well established and other Yersinia species start growing.					
<b>QC Tests – (I) Dehydrated Medium</b>					
	Colour :	Light yellow to pink			
	Appearance:	Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
	pH (post autoclaving/heating) :	7.4 ± 0.2			
	Colour (post autoclaving/heating) :	Orange red			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
	Cultural characteristics observed after 24 - 48 hrs at 25-30°C.				
	MICROORGANISM (ATCC)	GROWTH			
	Yersinia enterocolitica (27729)	Good – luxuriant			
	Salmonella typhimurium (14028)	Fair – good			
	Proteus mirabilis (25933)	Fair – good			
	Escherichia coli (25922)	None-poor			
	Shigella flexneri (12022)	None-poor			
<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>	For selective isolation of Yersinia species from foods. Recommended by International Organization for Standardization (ISO), 1994 Draft ISO/DIS 10273				
<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>B1442</b>	79.02 g/l	6.33 L	7.4 ± 0.2	Nil	DO NOT AUTOCLAVE OR OVERHEAT.

**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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