

**TECHNICAL SHEET**

<b>B1444</b>	<b>YERSINIA IDENTIFICATION BROTH BASE</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
L-tryptophan		3.00				
Monopotassium phosphate		1.00				
Dipotassium phosphate		1.00				
Sodium chloride		5.00				
Phenol red		0.025				
Final pH (at 25°C) : 6.9 ± 0.2						
<b>Directions :</b>						
Suspend 10 gms. in 1000ml. distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add Urea solution (BF048). Mix well before dispensing in sterile tubes.						
<b>Principle :</b>						
Yersinia Identification Broth is formulated in accordance with the recommendation of ISO Committee for identification of Yersinia species. When the organisms utilize urea, ammonia is formed and medium becomes alkaline, producing a pink red colour. Consequently urease production can be detected by the change in the phenol red indicator. The phosphates give buffering capacity to the medium. Sodium chloride maintains osmotic equilibrium.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Pink				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		6.9 ± 0.2				
Colour (post autoclaving/heating) :		Orange – red				
Clarity (post autoclaving/heating) :		Clear				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after		18 - 24 hrs at 30 - 32°C.				
MICROORGANISM (ATCC)		GROWTH	UREASE PRODUCTION			
Yersinia enterocolitica (27729)		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>		For identification of Yersinia species as per International organization for standardization, (ISO), 1994, Draft ISO 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>B1444</b>	10 g/l	50 L	6.9 ± 0.2	Urea solution (BF048)	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 BIOMARK LABORATORIES publications.

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