B1444	**YERSINIA IDENTIFICATION BROTH BASE**

Formula

Ingredients :	**gms/lit.**
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

Directions :

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.

Principle :

Yersinia Idenificatio Broth is formulated in accordance with the recommendation of ISO Committee for identification of Yersina 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.

QC Tests – (I)Dehydrated Medium			
	Colour :	Pink	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	6.9 ± 0.2	
	Colour (post autoclaving/heating) :	Orange – red	
	Clarity (post autoclaving/heating) :	Clear	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after	18 - 24 hrs at 30 - 32°C.	
	MICROORGANISM (ATCC)	GROWTH	UREASE PRODUCTION
	Yersinia enterocolitica (27729)	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.
Use :	For identification of Yersinia species as per International organization for standardization, (ISO), 1994, Draft ISO 10273.
Storage :	Dehydrated medium- below30°C Prepared medium– Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1444	10 g/l	50 L	6.9 ± 0.2	Urea solution (BF048)	121^0C/15 min.

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