B1473	CIN AGAR BASE /YERSINIA SELECTIVE AGAR

Formula	
Ingredients :	**gms/lit.**
Peptone	20.00
Yeast extract	2.00
Mannitol	20.00
Sodium pyruvate	2.00
Sodium chloride	1.00
Magnesium sulphate	0.01
Sodium deoxycholate	0.50
Irgasan	0.004
Neutral red	0.03
Crystal violet	0.001
Agar	12.00

Final pH (at 25°C) : 7.4 ± 0.2

Directions :

Suspend 28.77 grams(the equivalent weight of dehydrated medium per litre) in 500 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add reconstituted contents of 1 vial of Yersinia Selective Supplement (BF161). Mix well and pour into sterile Petri plates.

Principle :

The medium differentiates between mannitol fermenting and non-fermenting bacteria. It is selective due to the presence of bile salts and crystal violet which inhibit gram – positive and a number of gram – negative bacteria. Addition of antibiotic supplement makes it highly selective for Yersinia. Typical colonies of Yersinia enterocolitica will form the dark red colonies resembling bull's – eye which are normally surrounded by a transparent border. Colony size and smoothness and ratio of the border to center diameter may very among different serotypes. Serratia liquefaciens, Citrobacter freundii and Enterobacter agglomerans may resemble Yersinia enterocolitica which can be further identified by biochemical tests.

QC Tests – (I)Dehydrated Medium		
	Colour :	Light yellow to pink
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	7.4 ± 0.2
	Colour (post autoclaving/heating) :	Orange red
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent

(III)Q.C. Test Microbiological

Cultural characteristics observed with added Yesinia Selective Supplement (BF161) after an incubation at 30°C for 24-48 hours.

MICROORGANISM (ATCC)	GROWTH	COLONY
Yersinia enterocolitica (27729)	Good-luxuriant	Translucent with dark pink center & bile ppt.
Escherichia coli (25922)	Inhibited	--

Refer disclaimer Overleaf

	Proteus mirabilis (25933)	Inhibited	--
	Pseudomonas aeruginosa (27853)	Inhibited	--
	Enterococcus faecalis (29212)	Inhibited	--

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. Yersinia Selective Agar Base are intended for use in the preparation of Yersinia Selective Agar. Although this medium is selective for Yersinia, biochemical testing using pure cultures is necessary for complete identification.
	3. Due to the selective properties of the medium, some Yersinia strains may be encountered that fail to grow or grow poorly on the complete medium. Some strains of normal enteric organisms may be encountered that are not inhibited or are only partially inhibited on the complete medium, such as Citrobacter freundii, Serratia liquefaciens and Enterobacter agglomerans.
	4. Growth of Yersinia frederiksenii, Y. kristensenii, Y. pseudotuberculosis and Y. intermedia is not inhibited on the complete medium. Colonies of these organisms must be differentiated from Y. enterocolitica on the basis of additional characteristics.
Use :	For selective isolation and enumeration of Yersinia enterocolitica from clinical specimens and food samples. Recommended by ISO10273:1994
Storage :	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1473	57.541 g/L	8.689L	7.4 ± 0.2	Yersinia Supplement Selective (BF161)	121^0C/15 min.