B596	LYSINE IRON CYSTINE BROTH BASE

Formula

Ingredients :	Gms/lit.
Casein enzymic hydrolysate	5.00
Yeast extract	3.00
L-Lysine hydrochloride	10.00
Mannitol	5.00
Dextrose	1.00
Salicin	1.00
L-Cystine	0.10
Ferric ammonium citrate	0.50
Sodium thiosulphate	0.10
Neutral red	0.025

Final pH (at 25°C) : 6.2 ± 0.2

Directions :

Suspend 25.7 gms.in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs Pressure (121°C) for 15 minutes. Cool to room temperature and one vial of reconstituted Novobiocin Selective Supplement. Mix well before dispensing in sterile tubes.

Principle :

Casein enzymic hydrolysate and L-Cystine provide carbonaceous and nitrogenous compounds. Yeast extract supplies Vitamin B complex. Dextrose, mannitol and salicin are the fermentable carbohydrates. Ferric ammonium citrate and sodium thiosulphate are the indicators of hydrogen sulphide formation. Lysine is the substrate which is either decarboxylated or deaminated. To eliminate the possibility of non H_2S producing Salmonellae, incubate for an additional 16-24 hours. 0.1 ml. bromo thymol blue solution (0.3%) in 0.1 N NaOH and 50% ethanol is added to each tube. If the colour changes from yellow to dark green or blue, it indicates an alkaline reaction and the presence of Salmonella species.

QC Tests – (I)Dehydrated Medium		
	Colour :	Pinkish cream
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	6.2 ± 0.2
	Colour (post autoclaving/heating) :	Pink to red
	Clarity (post autoclaving/heating) :	Clear solution which may have slight particles.
(III) Q.C. Test Microbiological		
	Cultural characteristics observed after 24 – 48 hours at 35-37 °C.	

	MICROORGANISM (ATCC)	GROWTH	COLOUR OF MEDIUM	COLOUR OF MEDIUM* AFTER ADDITION OF BROMO THYMOL BLUE	H_2S	
	Salmonella typhi (19430)	Luxuriant	Yellow	Dark green - blue	+	
	Salmonella enteritidis (13076)	Luxuriant	Yellow	Dark green – blue	+	
	Escherichia coli (25922)	Inhibited	Red	Red – blue	-	
	Shigella flexneri (12022)	Inhibited	Red	Red – blue	-	

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 rapid presumptive detection of Salmonellae in foods, food ingredients and feed materials.
Storage :	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.
Packing :	500 gm. bottle

Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B596	25.7 g/l	19.45 lit	6.2 ± 0.2	Novobiocin Selective Supplement	121^0C /15 min

Refer disclaimer Overleaf

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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