BIOMARK Laboratories-INDIA

www.biomarklabs.com

www.biomarkiabs.com				
	TECHNICAL SHEET			
AS004 KI	ligler Iron Agar Slant			
Formula				
Ingredients:	gms/lit.			
Peptone	15.00			
Meat Extract B#	3.00			
Yeast extract	3.00			
Proteose peptone	5.00			
Lactose	10.00			
Dextrose	1.00			
Ferrous sulphate	0.20			
Sodium chloride	5.00			
Sodium thiosulpha				
Phenol red	0.024			
Agar	15.00			
#- Equivalent to E				
Final pH (at 25°C)): 7.4 <u>+</u> 0.2			
Directions:				
	oculum aseptically into the slant and incubate at appropriate conditions.			
Principle:				
Kligler Iron Agar is a combination of the lead acetate medium described by Kligler and Russel's Double Sugar Agar and is used as a differentiation medium for typhoid, dysentery and allied bacilli. This combination permits the differentiation of the gram-negative bacilli both by their ability to ferment dextrose or lactose and to produce hydrogen sulfide. Meat Extract B, Yeast Extract, Peptone, and Proteose Peptone provide nitrogen, vitamins and minerals. Ferrous sulfate and sodium thiosulfate are the indicators of hydrogen sulfide production. Phenol red is the pH indicator. Sodium chloride maintains the osmotic balance				
of the medium. Agar is the solidifying agent.				
(I) QC Tests	gai is the solithying agent.			
(T) &c 16363				

pr	oduction. Phenol red is the pH indi	cator. Sodi	um chlori	de ma	intains t	the osmot	tic balance	
of	the medium. Agar is the solidifying	agent.						
(I)	QC Tests							
	pH:	7.4 ± 0.2						
	Color:	Red coloured slants.						
Appearance:		Sterile Kligler Iron Agar in disposable slants.						
(II)Sterility test		Passes release criteria						
(I :	II)Q.C. Test Microbiological							
	Cultural characteristics observed af	ter an incu	bation at	35-37	°C for 1	.8 - 48 ho	urs.	
	MICROORGANISM (ATCC)	INOCULU M(CFU)	GROWT H	Gas	H ₂ S	SLANT	Butt	
	Escherichia coli 25922 (00013*)	50-100	luxuriant	ve	No blackeni ng of medium	yellowing	acidic reaction, yellowing of the medium	
	#Klebsiella aerogenes 13048 (00175*)	50-100	luxuriant	ve	No blackeni ng of medium	acidic reaction, yellowing of the medium	acidic reaction, yellowing of the medium	
	Citrobacter freundii 8090	50-100	luxuriant	ve reacti on		reaction, yellowing of the medium	acidic reaction, yellowing of the medium	
	Proteus vulgaris 6380	50-100	luxuriant	ve	blackeni ng of medium	alkaline reaction, red color of the medium	acidic reaction, yellowing of the medium	

Rev: January2022

BIOMARK Laboratories-INDIA www.biomarklabs.com

TECHNICAL SHEET

(00087*)		50-100	luxuriant	ve reacti on	ng of medium	alkaline reaction, red color of the medium	acidic reaction, yellowing of the medium
Salmonella Paratypl	ni A 9150	50-100	luxuriant	ve	No blackeni ng of medium	alkaline reaction, red color of the medium	acidic reaction, yellowing of the medium
Salmonella Schottm	uelleri 10719	50-100	luxuriant	ve	blackeni ng of medium	alkaline reaction, red color of the medium	acidic reaction, yellowing of the medium
Salmonella Typhi 65		50-100	luxuriant	ve	blackeni ng of medium	alkaline reaction, red color of the medium	acidic reaction, yellowing of the medium
Salmonella Enteritid	lis 13076 (00030*)	50-100	luxuriant	positi ve reacti on	blackeni ng of medium	alkaline reaction, red color of the medium	acidic reaction, yellowing of the medium
Shigella flexneri 120	022 (00126*)	50-100	luxuriant	negati ve reacti on		alkaline reaction, red color of the medium	acidic reaction, yellowing of the medium
(00025*)	ruginosa 27853	50-100	luxuriant	negati ve reacti on	-ve reaction, no	alkaline reaction, red color of the medium	alkaline reaction, red color of the medium
Yersinia enterocoliti	ca 27729	50-100	luxuriant	variab le reacti on	-	alkaline reaction, red color of the medium	acidic reaction, yellowing of the medium
Enterobacter cloaca	e 13047 (00083*)	50-100	luxuriant	positi ve reacti on	-ve reaction, no	acidic reaction, yellowing of the medium	acidic reaction, yellowing of the medium

Page 02 of 03

Refer disclaimer Overleaf

BIOMARK Laboratories-INDIA www.biomarklabs.com

TECHNICAL SHEET

Precautions:	1. In Vitro diagnostic use only.				
	2. Read the label before opening the container				
Limitations :	 Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. Results should be noted after 18-24 hours. Else it might result in erroneous results. 				
	3.Straight wire loop should be used for inoculation.				
	4. Pure isolates should be used to avoid erroneous results.				
Use:	Recommended for the differential identification of gram-negative enteric bacilli on the basis of the fermentation of dextrose, lactose and H2S production.				
Storage:	Store between 2-8°C. Use before expiry date on the label.				
Packing:	10/25 disposable slants.				

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

Page 03 of 03

Rev: January2022