



Guangdong Huankai Microbial Sci. & Tech.Co.,Ltd.

广东环凯微生物科技有限公司

Add: No.788,Shenzhou Road,Guangzhou Science City,
Guangzhou,Guangdong Province,China
Tel: +86-20-32078333-8654 FAX: +86-20-32078333-8803
E-mail: hugochiang@163.com

HCM032 Kligler Iron Agar

Usages:

For differentiation of enterobacteriaceae.

Principle:

Peptone, beef extract powder and yeast extract powder provide nitrogen, vitamins, minerals; lactose, dextrose into fermentable sugars, which produce acid when measured by the phenol red indicator, acid yellow, basic red; thiosulfate sodium can be reduced to some bacteria to hydrogen sulfide, to produce a black iron sulfide and iron salts; sodium chloride to maintain osmotic equilibrium; agar as medium coagulant.

Formulation (per liter) :

Peptone 20g
Beef extract powder 3g
Yeast extract powder 3g
Lactose 10g
Dextrose 1g
Sodium chloride 5g
Ferric ammonium citrate 0.5g
Sodium thiosulfate 0.5g
Agar 12g
Phenol red 0.05g
Final pH 7.4 ±0.2

How to use:

- 1.Suspend 54.5g in 1L of distilled water , stirring heated to boiling ,autoclave at 121℃ for 15 minutes.
- 2.Diluted and treated samples.

Quality control:

Item	The name and number of strain	Growth	Colony Color
1	Escherichia coli ATCC25922	Good	A/A
2	Proteus CMCC (B) 49027	Good	K/A
3	Salmonella typhimurium CMCC (B) 50115	Good	K/A

“A”Acid , “K” Alkalinity

Storage: Keep container tightly closed, store in a cool, dry place, away from bright light. Storage



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period of 3 years.

Specifications: 500g/bottle

Reference:

- 1.GB/T4789.6-2003 People's Republic of China national standards of food hygiene microbiological testing of Escherichia coli cause diarrhea Inspection
- 2.GB/T4789.28-2003 People's Republic of China national standards of food hygiene microbiological examination Staining, media and reagents