

PRODUCT INFORMATION



Kligler Iron Agar Cat. No. K11-100

Date of Issue:
10/01/17

DESCRIPTION

Kligler Iron Agar is used for differentiating Gram-negative bacilli based on the fermentation of dextrose and lactose. This medium is also used in the production of hydrogen sulfide.

PREPARATION

Mix 52 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes. Cool in a slanted position with deep butts.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige
With faint pink tint.
2. Visually the prepared medium is trace to slight haze, and reddish orange
3. Expected cultural response after 18-24 hours at 35°C.

Formula* per Liter:

Peptic Digest of Animal Tissue.....	10.0g
Enzymatic Digest of Casein.....	10.0g
Dextrose.....	1.0g
Lactose.....	10.0g
Sodium Chloride.....	5.0g
Sodium Thiosulfate.....	0.5g
Ferric Ammonium Citrate.....	0.5g
Phenol Red.....	0.025g
Agar.....	15.0g

Final pH: 7.4 ± 0.2 at 25°C

* Grams per liter may be adjusted or formula supplemented to obtain desired performance.

Microorganisms	Recovery	Slant	Butt	Gas	H ₂ S
<i>Escherichia coli</i> ATCC® 25922	Growth	A	A	+	-
<i>Proteus mirabilis</i> ATCC® 12453	Growth	K	A	-	+
<i>Salmonella choleraesuis</i> ATCC® 13076	Growth	K	A	+	+
<i>Shigella flexneri</i> ATCC® 12022	Growth	K	A	-	-

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.