

PRODUCT INFORMATION

Kligler Iron Agar

Cat. No. K11-100

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.

FORMULA (g/L)

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

Final pH: 7.4 ± 0.2 at 25 °C

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

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.

ORGANISM	RESULT	SLANT	BUTT	GAS	H2S
<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> ATC 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.

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