

KLIGLER IRON AGAR

A differential medium for the differentiation of bacteria on the basis of carbohydrate fermentation and hydrogen sulphite production.

Dehydrated media	
Code number:	500 g: KIA20500, 5 kg: KIA25000
Colour:	Pinkish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,2 – 7,6

Direction: Suspend **56 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121°C for 15 minutes. Allow to cool in slanted position to form slants with deep butt.

Prepared media	
Bottled media:	100 ml: KIA30100, 500 ml: KIA30500
Tubed media:	100 x 12 mm: KIA40003 (3 ml, slant with deep butt)
Colour:	Yellow onion
pH (25 °C):	7,3 – 7,5

Direction: Dispense the melted bottled media aseptically into test tubes. Allow to cool in slanted position to form slant with deep butt. Media in tubes are ready to use.

FORMULA in g/l

Peptones	26,40
Lactose	10,00
Glucose	1,00
Sodium chloride	5,00
Sodium thiosulphate	0,30
Ferric citrate	0,30
Phenol red	0,05
Agar	13,00

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled media protected from light at room temperature. Store the tubed media protected from light at 2-8 °C. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	Reactions		Incubation time: 24 h	
		Slant	Butt	Gas	H ₂ S
<i>Escherichia coli</i> ATCC 25922		yellow	yellow	+	-
<i>Salmonella typhimurium</i> ATCC 14028		red	yellow	+	+
<i>Shigella sonnei</i> ATCC 25931		red	yellow	-	-

Irodalom: Kligler (1917) Am. J. Pub. Hlth. 7: 1042.

In vitro diagnostic – for professional use only!