

IVD in vitro diagnosticum - For professional use only



KLIGLER Agar (Double sugar iron agar acc. to KLIGLER)

KLIGLER agar

Cat. No. 1.03913.0500
(500 g)

Test culture medium proposed by KLIGLER (1917, 1918) for identifying Gram-negative intestinal bacteria.

KLIGLER agar can be modified as proposed by BADER and HOTZ (1951) by adding 0.2 % urea to give iron-urea agar.

See also General Instruction of Use

Warnings and precautions see www.merck-chemicals.com

Principle

Microbiological method

Mode of Action

See Triple Sugar Iron Agar.

Typical Composition (g/litre)

Peptone from casein 15.0; peptone from meat 5.0; meat extract 3.0; yeast extract 3.0; sodium chloride 5.0; lactose 10.0; D(+)-glucose 1.0; ammonium iron(III) citrate 0.5; sodium thiosulfate 0.5; phenol red 0.024; agar-agar 12.0.

Preparation and Storage

Cat. No. 1.03913. KLIGLER Agar (Double sugar iron agar acc. to KLIGLER) (500 g)

Usable up to the expiry date when stored dry and tightly closed at +15 to +25°C. Protect from light.

After first opening of the bottle the content can be used up to the expiry date when stored dry and tightly closed at +15 to +25°C.

Suspend 55 g/litre, dispense into test tubes, autoclave (15 min at 121 °C). Allow to solidify to give sugar slants.

pH: 7.4 ± 0.2 at 25 °C.

The plates are clear and red.

Specimen

e.g. Isolated bacteria from stool, .

Clinical specimen collection, handling and processing , see general instructions of use.

Experimental Procedure and Evaluation

See Triple Sugar Iron Agar.

Additives

Merck Cat.No.

1.08487.0500

Product

Urea

Pack Size

500 g

Quality control

<i>Test strains</i>	<i>Growth</i>	<i>Butt</i>	<i>Slant</i>
Escherichia coli ATCC 25922	good / very good	yellow	yellow
Citrobacter freundii ATCC 8090	good / very good	yellow and black	yellow
Enterobacter cloacae ATCC 13047	good / very good	yellow	yellow
Shigella flexneri ATCC 12022	good / very good	yellow	red
Salmonella typhimurium ATCC 14028	good / very good	yellow and black	red
Salmonella enteritidis ATCC 13076	good / very good	yellow and black	red
Proteus mirabilis ATCC 14153	good / very good	yellow	red
Proteus vulgaris ATCC 13315	good / very good	yellow and black	red

Literature

BADER, R.E., u. HOTZ, G.: Eisen-Harnstoff-Agar, eine Modifikation des Eisen-Agars nach KLIGLER. - **Z. Hyg. Infekt.-Kr.**, **133**; 20-25 (1951).
KLIGLER, I.J.: A simple medium for the differentiation of members of typhoid-paratyphoid group. - **Am. J. Publ. Health**, **7**; 1042-1044 (1917).
KLIGLER, I.J.: Modification of culture media used in the isolation and differentiation of typhoid, dysentery and allied bacilli. - **J. Exper. Med.**, **28**; 318-322 (1918).

