

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

KLIGLER Iron Agar

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



In Vitro Diagnostic Medical Device -

For professional use only



Version 17-10-2008 Merck KGaA, 64271 Darmstadt

#### **Principle**

Microbiological method.

#### **General Information**

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

#### Mode of Action

See Triple Sugar Iron Agar.

#### Typical Composition (q/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**

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

pH:  $7.4 \pm 0.2$  at 25 °C.

The plates are clear and red

See also General Instruction for Use "How to use Dehydrated Culture Media"

For MSDS, warnings and precautions see our website: www.merck-chemicals.com

#### **Storage**

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.

#### **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.

#### Literature

322 (1918).

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-

#### **Ordering Information**

Product	Ordering No.	Pack size
KLIGLER Agar (Double sugar iron agar acc. to KLIGLER)	1.03913.0500	500 g
Urea	1.08487.0500	500 g

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### **Quality control**

Test strains	Growth	Butt	Slant
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







out mirabilis ATCC 14153

slanted