

# 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 diagnosticum –  
For professional use only*



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

### 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

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

See also *General Instruction of Use*  
Warnings and precautions see ChemDAT®  
([www.chemdat.info](http://www.chemdat.info))

### 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

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).

### Ordering Information

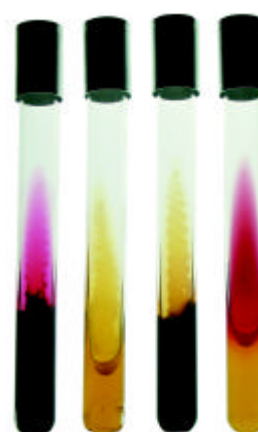
Product	Merck Cat. No.	Pack size
KLIGLER Agar (Double sugar iron agar acc. to KLIGLER)	1.03913.0500	500 g
Urea	1.08487.0500	500 g



ohne



mirabilis  
ATC 14153



Schraeg

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## Quality control

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