

## Kligler-Eisen-Agar

|                            |                           |
|----------------------------|---------------------------|
| <b>Shorthand symbol:</b>   | KIA                       |
| <b>Item number:</b>        | 60-1146                   |
| <b>Format:</b>             | Tube, Slant agar          |
| <b>Colour:</b>             | Redish, transparent       |
| <b>Storage conditions:</b> | Dry and closed at 15-22°C |
| <b>Shelf-life:</b>         | 4 Weeks                   |
| <b>pH:</b>                 | 7.8 ± 0.2 at 25°C         |



### Intended use and fields of application

The Kligler iron agar is used for differentiating Gram-negative bacteria, especially Enterobacteriaceae.

### Typical composition in g/l

#### in g pro 1l Nährmedium

|                    |      |
|--------------------|------|
| Peptone            | 23   |
| Yeast extract      | 3    |
| Glucose            | 1    |
| Lactose            | 10   |
| Iron(II)-sulfate   | 0.2  |
| Sodium chloride    | 5    |
| Sodium thiosulfate | 0.3  |
| Phenol red         | 0.05 |
| Agar               | 7    |

\*Adjusted as required to meet performance standards

## Microbiological quality control

The microbial performance test is carried out in conformity with the requirements of DIN EN ISO 11133.

### Productivity

Incubation conditions:  $21 \pm 3$  hours at  $37 \pm 1$  °C; Inoculum concentration: 80 – 120 CFU

| Organism                                | Test strain             | Specification                                                            | Colony morphology |
|-----------------------------------------|-------------------------|--------------------------------------------------------------------------|-------------------|
| Escherichia coli                        | ATCC 8739 / WDCM 00012  | Higher layer: yellow<br>Slopy surface: yellow<br>Gas formation: positive | No blackening     |
| Salmonella enterica serovar Enteritidis | ATCC 13076 / WDCM 00030 | Higher layer: yellow<br>slopy surface: red<br>Gas formation: positive    | Blackening        |
| Shigella flexneri                       | ATCC 29903 / WDCM 00125 | Higher layer: yellow<br>Slopy surface: red<br>Gas formation: negative    | No blackening     |
| Pseudomonas aeruginosa                  | ATCC 9027 / WDCM 00026  | Higher layer: red<br>Slopy surface: red<br>Gas formation: negative       | No blackening     |

### Microbial Contamination

Incubation conditions: 5 – 7 days at 20 – 25 °C and 5 – 7 days at 30 – 35 °C

### Specification

No microbial contamination