

## Bile Chrysoidine Glycerol Agar (Base) with MUG

### GCG Agar with MUG

TN 1237 500 g



#### Intended use

Used for the isolation and differentiation of *Enterobacteriaceae* and various aerobic gram-negative bacteria from clinical material. Advantage:  $\beta$ -D-glucuronidase-positive *E. coli* strains are easy to detect by means of fluorescence.

#### Form

Powder

#### Colour

Beige

#### Storage

Dry, tightly closed, at 10...25 °C.

#### Shelf life

5 years

#### Typical composition

| Component  | g/l   |
|--|-------|
| Meat peptone                                       | 10    |
| Yeast extract                                      | 5     |
| Casein hydrolysate                                 | 2     |
| Ammonium iron (III) citrate                        | 2     |
| Sodium thiosulfate                                 | 0.65  |
| Sodium chloride                                    | 5     |
| Ox bile  | 8     |
| MUG (4-Methylumbelliferyl- $\beta$ -D-glucuronide) | 0.1   |
| Bromothymol blue                                   | 0.12  |
| Chrysoidine  | 0.025 |
| Agar   | 10    |

#### Directions

Suspend 42.9 g in 1 litre distilled water and heat carefully while stirring until completely dissolved. Do not autoclave! Dissolve 1 g urea in 20 ml glycerin and add aseptically. Mix well and pour plates.

#### Final pH at 25 °C

7.5  $\pm$  0.2

#### Microbiological quality control

Incubate Bile Chrysoidine Glycerol Agar (Base) with MUG aerobically for 18-24 hours at 36  $\pm$  1 °C.

| Test strain                   | ATCC no. | Appearance of colonies   | Fluorescence at 360 nm |
|-------------------------------|----------|--|------------------------|
| <i>Escherichia coli</i>       | 8739     | large greenish-yellow; culture medium unchanged  | good                   |
| <i>Pseudomonas aeruginosa</i> | 9027     | dark green or bluish-green; surrounding culture medium dark green; characteristic odour          | -                      |
| <i>Citrobacter freundii</i>   | 8090     | narrow yellowish edge, black centre; surrounding culture medium turns a lighter yellowish colour | -                      |
| <i>Salmonella</i> Typhimurium | 13311    | yellowish-green with clearly visible black centre; surrounding culture medium yellowish-green.   | -                      |
| <i>Enterococcus faecalis</i>  | 29212    | whitish-yellow; surrounding culture medium turns a lighter yellowish colour                      | -                      |
| <i>Enterococcus durans</i>    | 10541    | whitish-yellow; surrounding culture medium may turn a lighter yellowish colour                   | -                      |
| <i>Proteus mirabilis</i>      | 29906    | yellowish-green with black centre; swarming inhibited; surrounding culture medium green          | -                      |
| <i>Shigella flexneri</i>      | 29929    | yellowish-green; surrounding culture medium green  | -                      |
| <i>Acinetobacter anitrans</i> | 19606    | green; surrounding culture medium green  | -                      |
| <i>Staphylococcus aureus</i>  | 25923    | small, whitish-grey, opaque; surrounding culture medium unchanged                                | -                      |

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