

Bile Chrysoidine Glycerol Agar (Base) (GCG Agar)

TN 1133 500 g
TN 1249 5 kg



Intended use

Used for the isolation and differentiation of Enterobacteriaceae and various aerobic gram-negative bacteria from clinical material (especially urinary diagnostics and "Variadiagnostik").

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
Bromothymol blue	0.12
Chrysoidine	0.025
Agar	10

Directions

Suspend 42.8 g in 1 litre distilled water and heat carefully, stirring frequently, 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 ± 0.2

Microbiological quality control

Incubate Bile Chrysoidine Glycerol Agar (Base) (GCG Agar) aerobically for 18-24 hours at 36 ± 1 °C.

Test strain	CFU/ plate	Recovery rate in %	Appearance of colonies
<i>Escherichia coli</i> ATCC 8739	10-100	> 50%	large greenish-yellow; culture medium unchanged
<i>Escherichia coli</i> ATCC 25922	10-100	> 50%	large greenish-yellow; culture medium unchanged
<i>Pseudomonas aeruginosa</i> ATCC 9027	10-100	> 50%	dark green or bluish-green; surrounding culture medium dark green, characteristic odour
<i>Citrobacter freundii</i> ATCC 8090	10-100	> 50%	narrow yellowish edge, black centre; surrounding culture medium turns a lighter yellowish colour
<i>Salmonella Typhimurium</i> ATCC 14028	10-100	> 50%	yellowish-green with clearly black centre; surrounding culture medium yellowish-green
<i>Enterococcus faecalis</i> ATCC 29212	10-100	> 50%	whitish-yellow; surrounding culture medium turns a lighter yellowish colour
<i>Enterococcus durans</i> ATCC 10541	10-100	> 50%	whitish-yellow; surrounding culture medium may turn a lighter yellowish colour
<i>Proteus mirabilis</i> ATCC 29906	10-100	> 50%	yellowish-green with black centre; swarming inhibited; surrounding culture medium green
<i>Shigella flexneri</i> ATCC 29929	10-100	> 50%	yellowish-green; surrounding culture medium green
<i>Acinetobacter baumannii</i> ATCC 19606	10-100	> 50%	green; surrounding culture medium green
<i>Staphylococcus aureus</i> ATCC 25923	100-1000	inhibited	small, whitish-grey, opaque; surrounding culture medium unchanged

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