G.N. HAJNA BROTH

Medium for isolating and cultivating Gram negative microorganisms from clinical and nonclinical samples.

TYPICAL FORMULA	(g/l)
Tryptose	20.0
Sodium Citrate	5.0
Sodium Chloride	5.0
Dipotassium Hydrogen Phosphate	4.0
Potassium Dihydrogen Phosphate	1.5
Sodium Desoxycholate	0.5
Mannitol	2.0
Glucose	1.0

Final pH = 7.0 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 39.0 g of powder in 1 liter of distilled or deionized water. Heat to boiling and shake until completely dissolved. Distribute into tubes. Sterilize in autoclave at 121 °C for 15 minutes.

DESCRIPTION

G.N. HAJNA BROTH is recommended for the enrichment of Gram-negative microorganisms from clinical and non-clinical samples. The presence of the phosphate buffer and two fermentable carbohydrates, with a mannitol concentration twice that of glucose, allows for a pure growth of *Proteus* and *Pseudomonas* in samples where *Salmonella* and *Shihella* are present. Inhibitory chemicals in the medium allow normal fecal flora to be maintained in a prolonged lag phase. The medium is particularly recommended for the promotion of *Shigella* and *Salmonella* which are less inhibited and enter a stimulated phase of growth during the first few hours of incubation.

TECHNIQUE

Place 1 g of feces or 1 ml of liquid stool into the tube. Swab specimens may be inserted directly into the broth.
Emulsify the specimen thoroughly. Incubate aerobically for 6 to 8 hours at 36 ± 1°C. Place one or two drops of incubated broth onto selective plate media. Incubate aerobically at 36 ± 1°C and examine for pathogens after 18-24 hours.

QUALITY CONTROL

Dehydrated medium
Appearance: free-flowing, homogeneous.
Color: tan.
Prepared medium
Appearance: slightly opalescent without precipitate.
Color: light amber.
Incubation conditions: 36 ± 1 °C for 24 hours.

Microorganism	ATCC	Growth
Escherichia coli	25922	good
Enterococcus faecalis	19433	none
Staphylococcus aureus	25923	none
Salmonella typhimurium	6305	good
Proteus mirabilis	25933	good
Shigella flexneri	12022	good

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.
Store prepared tubes at 2-8 °C.

LIOFILCHEM s.r.l.
Via Scozia, Zona Ind.le - 64026, Roseto D.A. (TE) - ITALY
Phone +390858930745 Fax +390858930330
Website: www.liofilchem.net E-mail: liofilchem@liofilchem.net

CE IVD

REFERENCES

1. Hajna, A.A. (1955). Pub.Hlth. Lab. **18**:83.
2. NCCLS document M22-A2, 1996. Quality Assurance for Commercially prepared Microbiological Culòture Media- Second Edition ; Approved Standard.

PRESENTATION

Product	REF	Σ
G.N. HAJNA BROTH (12.8 l)	610163	500 g
G.N. HAJNA BROTH (2.5 l)	620163	100 g

TABLE OF SYMBOLS

LOT Batch code	Caution, consult accompanying documents	Manufacturer	Contains sufficient for <n> tests	IVD *In Vitro* Diagnostic Medical Device
REF Catalogue number	Fragile, handle with care	Use by	Temperature limitation	Keep away from heat source

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