
Product Name : GN (Gram-Negative) HAJNA Broth

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

TYPICAL FORMULA (G/L)

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|--------------------------------------|------|
| 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 L 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

GN (Gram-Negative) HAJNA Broth is recommended for the enrichment of Gram-negative microorganisms from clinical and non-clinical samples. The presence of the phosphate buffer and 2 fermentable carbohydrates, with a mannitol concentration twice that of glucose, allows for a pure growth of *Proteus* and *Pseudomonas* in samples where *Salmonella* and *Shigella* 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 faeces 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 / 24 hours.

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| Microorganism | ATCC | Growth |
|-------------------------------|-------|--------|
| <i>Escherichia coli</i> | 25922 | good |
| <i>Enterococcus faecalis</i> | 19433 | none |
| <i>Staphylococcus aureus</i> | 25923 | none |
| <i>Salmonella typhimurium</i> | 6305 | good |
| <i>Proteus mirabilis</i> | 25933 | good |
| <i>Shigella flexneri</i> | 12022 | good |

STORAGE

The powder is very hygroscopic: store the powder at room temperature, 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 2-6°C.

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.

PACKAGING

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|------------------------------------------------------|-------|
| Cat. No : MB-G1163 GN (Gram-Negative) HAJNA Broth | 500 G |
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