

## TMK 016 – GN BROTH, HAJNA

### INTENDED USE

For the selective enrichment of Gram negative organisms of the enteric group from clinical & non clinical sample

### PRODUCT SUMMARY AND EXPLANATION

GN BROTH, HAJNA is used for selective enrichment of gram-negative organisms of the enteric group. It was developed by Hajna for the recovery of *Salmonella* and *Shigella* from clinical and non-clinical specimens such as urine, blood clots, throat swabs, swabs from eating and drinking utensils etc.

### COMPOSITION

Ingredients	Gms / Ltr
Casein enzymatic hydrolysate	10.00
Pancreatic digest of animal tissue	10.00
Sodium citrate	5.00
Sodium chloride	5.00
Dipotassium phosphate	4.00
Mannitol	2.00
Monopotassium phosphate	1.50
Dextrose	1.00
Sodium deoxycholate	0.50

### PRINCIPLE

The Medium contains ingredients Casein enzymatic hydrolysate and Pancreatic digest of animal tissue which acts as sources of nitrogen, carbon and vitamins. Dextrose is the energy source. Sodium chloride maintains osmotic balance in the medium. The higher the concentration of Mannitol over Dextrose favors the growth of mannitol-fermenting *Salmonella* spp. and *Shigella* spp. over mannitol non-fermenting species, such as *Proteus* species. The Monopotassium Phosphate and Dipotassium Phosphate are buffering agents. Sodium Citrate and Sodium Deoxycholate inhibit growth of Gram-positive bacteria and coliforms.

### INSTRUCTION FOR USE

Label the ready to use bottle. Inoculate 50-100 cfu sample and Incubate at specified temperature and time.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Prepared media	: Light amber, clear to very slightly opalescent solution.
Sterility test	: Passes the release criteria.
pH (at 25°C)	: 7.0±0.2

### INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50 – 100	Luxuriant	35-37°C	18-24 Hours
<i>Salmonella typhimurium</i>	14028	50 – 100	Luxuriant	35-37°C	18-24 Hours
<i>Shigella flexneri</i>	12022	50 – 100	Luxuriant	35-37°C	18-24 Hours
<i>Enterococcus faecalis</i>	29212	50 - 100	Luxuriant	35-37°C	18-24 Hours

**PACKAGING:**

In pack size of 100 ml X 25 bottles.

**STORAGE**













On receipt, store bottles in the dark at 10–25 °C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Bottled media stored as labeled until just prior to use may be inoculated up to the expiration date and incubated for the recommended incubation times. Allow the medium to warm to room temperature before inoculation

**DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**REFERENCES**

- Hajna, A. A. A new specimen preservative for gram-negative organisms of the intestinal group. Public Health Lab. 13:59-62. (1955).
- Hajna, A. A. A new enrichment broth medium for gram-negative organisms of the intestinal group. Public Health Lab. 13:83-89. (1955).
- Croft, C. C., and M. J. Miller. Isolation of Shigella from rectal swabs with Hajna “GN” broth. Am. J. Clin. Path. 26:411-417. (1956).
- Taylor, W. I., and D. Schelhart. Isolation of shigellae, IV. Comparison of plating media with stools. Am. J. Clin. Path. 48:356-362. (1967).

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Borkstrasse 10, 48163 Muenster, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**  
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