

TM 1408 - SPECIMEN PRESERVATIVE MEDIUM BASE (SP HAJNA)

INTENDED USE

For collection, transportation and preservation of stool samples or rectal swabs for the isolation of members of *Enterobacteriaceae*.

PRODUCT SUMMARY AND EXPLANATION

Specimen Preservative Medium (SP Hajna) is designed for transport and preservation of clinical specimen. Transport media were primarily developed by Moffet et al and Stuart et al for carrying gonococcal specimens. Transport media are chemically defined, semisolid, non-nutritive, phosphate buffered media that provide a reduced environment. These media are formulated to maintain the viability and/ or infectivity of the microorganisms without significant growth during the period between collection and culture of the specimen. This medium is suitable for preserving gram-negative rods such as *Salmonella*, *Shigella* and *Klebsiella*. In comparative studies using Specimen Preservation Medium Base and glycerin preservation solution for different *Salmonella*, *Shigella* and *Klebsiella* strains, it was observed that preservation of organisms was twice more effective in Specimen Preservation Medium Base.

COMPOSITION

Ingredients	Gms / Ltr
Yeast extract	1.000
Ammonium phosphate	4.000
Monopotassium phosphate	2.000
Sodium chloride	5.000
Sodium citrate	5.000
Magnesium sulphate	0.400
Sodium deoxycholate	0.500

PRINCIPLE

Specimen Preservative Medium is made inhibitory for gram-positive organisms by sodium deoxycholate and sodium citrate. Sodium, magnesium, potassium salts control permeability of bacterial cells. Sodium chloride helps in maintaining osmotic balance in medium. Yeasts extract acts as the source of nitrogen, vitamins and growth factors.

INSTRUCTION FOR USE

- Dissolve 17.9 grams in 700 ml distilled water, add 300 ml of neutral glycerol.
- Heat if necessary to dissolve the medium completely.
- Mix well and dispense as desired.
- Sterilize by autoclaving at 115°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Light amber coloured clear solution.
pH (at 25°C) : 7.0±0.2

INTERPRETATION

Cultural characteristics observed after an incubation. Recovery was seen on Soyabean Casein Digest Agar.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Enterobacter aerogenes</i>	13048	50-100	Good-excellent, no increase in number	35-37°C	18-24 Hours
<i>Escherichia coli</i>	25922	50-100	Good-excellent, no increase in number	35-37°C	18-24 Hours
<i>Klebsiella pneumoniae</i>	13883	50-100	Good-excellent, no increase in number	35-37°C	18-24 Hours
<i>Shigella flexneri</i>	12022	50-100	Good-excellent, no increase in number	35-37°C	18-24 Hours
<i>Salmonella Typhimurium</i>	14028	50-100	Good-excellent, no increase in number	35-37°C	18-24 Hours

PACKAGING:

In pack size of 100 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

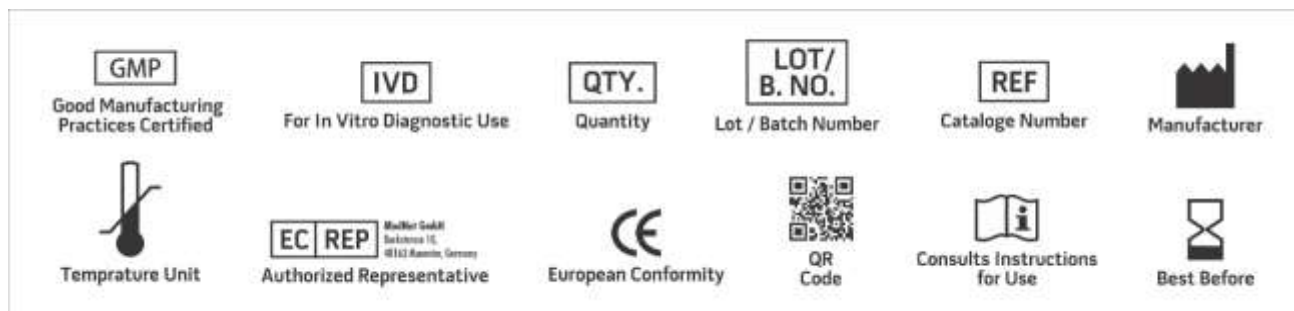
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. Moffett M., Young D. and Stuart R. D., 1948, Brit. Med. J., 2:241.
2. Stuart S. D., Toshach S. R. and Patsula T. M., 1954, Can. J. Public Health, 45:73.



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

***For Lab Use Only**
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