

CM 20246 – NICKERSON MEDIUM (Bi.G.G.Y. AGAR)

INTENDED USE

For selective isolation, differentiation & presumptive identification of *Candida albicans* & *Candida tropicalis*.

PRODUCT SUMMARY AND EXPLANATION

Bi.G.G.Y. Agar (Nickerson Agar) was originally formulated by Nickerson and further modified by Haley following study of sulphite reduction. This medium is only a part of the identification process of organisms. Bismuth ammonium citrate and sodium sulphite together act as selective agents for *Candida* species suppressing bacterial growth, at the same time indicating substrate reduction to yield bismuth sulphite which helps to presumptively identify *Candida* species.

COMPOSITION

Ingredients	Gms / Ltr
Yeast extract	1.000
Glycine	10.000
Dextrose	10.000
Ammonium Bismuth Citrate	5.000
Sodium sulphite	3.000
Agar	16.000

PRINCIPLE

In Nickerson Medium, Bismuth ammonium citrate and sodium sulphite together act as selective agents for *Candida* species which suppress the bacterial growth, at the same time indicating substrate reduction to yield bismuth sulphite which helps to presumptively identify *Candida* species. Yeast extract, dextrose and glycine serve as nutrients.

INSTRUCTION FOR USE

Dissolve 45.0 grams in 1000 ml purified / distilled water.

Heat to boiling to dissolve the medium completely. Do not autoclave or heat. Overheating will destroy the selective properties.

Disperse the flocculant precipitate formed by swirling prior to dispensing into Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder

Appearance of prepared medium : Light amber coloured, opalescent gel (with a dispersible flocculant precipitate) forms in Petri plates.

pH (at 25°C) : 6.8 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Colony morphology	Incubation Temperature	Incubation Period
Escherichia coli	25922	>=104	Inhibited	0%	-	25-30°C	18-48 Hours
Candida krusei	24408	10-100	Luxuriant	>=50%	Large flat, wrinkled silvery brown, black colonies with brown peripheries, yellow halo	25-30°C	18-48 Hours
Candida tropicalis	750	10-100	Luxuriant	>=50%	Smooth discrete, dark brown with black centres, diffused blackening after 72 hours, sheen, slight mycelial fringe	25-30°C	18-48 Hours
Candida albicans	00054	10-100	Luxuriant	>=50%	Smooth, circular intensely brown black, no colour diffusion and no sheen	25-30°C	18-48 Hours
Staphylococcus aureus subsp. aureus	25923	>=104	Inhibited	0%	-	25-30°C	18-48 Hours

PACKAGING:

Inpacksizeof500 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




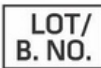








After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

- Haley L.D., 1959, Trans. N.Y. Acad. Sci., 21(8):708.
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- MacFaddin J.F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore..
- Mendel E.B., Naberman S. and Hall D. K., 1960, Obstet and Gynec. 16, 180-184. Revision : 02 / 2019 HiMedia Laboratories Technical Data
- Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
- Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.



7. Nickerson W.J., 1947, The Chronica, Botanica Co.
8. Nickerson W.J., 1953, J. Inf. Dis., 93:43.

 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 Birkstrasse 10, 48163 Moers, 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 LabUse Only

