CM 20416 – CHOCOLATE NO. 2 AGAR BASE

INTENDED USE

For the cultural isolation of Neisseria and Haemophilus species from a variety of clinical specimens.

PRODUCT SUMMARY AND EXPLANATION

Gonococci are fastidiousorganismswithexacting nutritional and environmental requirements. The cultivation medium for gonococci should ideally be a rich nutrient base with blood, either partially lysed or completely lysed. The diagnosis and control of gonorrhoea have been greatly facilitated by improved laboratory methods for detecting, isolating and studying N. gonorrhoeae. Chocolate No.2 Agar is used for isolation and cultivation of fastidious microorganisms especially Neisseria and Haemophilus species from a variety of clinical specimens. The added supplements provide necessary X factor (from Haemoglobin) and V factor (from Growth Supplement) required by the fastidious organism

COMPOSITION

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	7.500
Meat extract	7.500
Sodium chloride	5.000
Dipotassium phosphate	4.000
Corn starch	1.000
Monopotassium phosphate	1.000
Agar	12.000

PRINCIPLE

Casein enzymic hydrolysate and meat extract provides nitrogenous sources for growth of fastidious organisms. Cornstarch neutralizes toxic fatty acids that may be released during growth. The Vitamin Supplement has necessary growth factors, vitamins, aminoacids and coenzymes. Dipotassium phosphate and monopotassium phosphate helps to maintain pH of medium whereas sodium chloride maintains osmotic equilibrium thereby maintaining integrity of cells.

INSTRUCTION FOR USE

Dissolve 38 grams in490 ml distilled water.
Heat to boiling to dissolve the medium completely.
Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50°C.
Aseptically add equal amount of sterile 2% Haemoglobin solution (250 ml).
Aseptically add rehydrated contents of one vial of Vitamino Growth Supplement, Modified. Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Basal medium: Light amber coloured clear to slightly opalescent gel. After addition of haemoglobin : Chocolate brown coloured opaque gel forms in Petri plates.
pH (at 25°C)	: 7.3±0.2

INTERPRETATION

Cultural characteristics observed after incubation with added 2% haemoglobin and Vitamino Growth Supplement, Modified.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Neisseria gonorrhoeae	19424	50-100	Luxuriant	>=70%	35-37°C	40-48 Hours
Neisseria meningitidis	13090	50-100	Luxuriant	>=70%	35-37°C	40-48 Hours
Haemophilus influenzae	19418	50-100	Luxuriant	>=70%	35-37°C	40-48 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

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

REFERENCES

1. Carpenter and Morton, 1947, Proc. N.Y.State Assoc.Public Health Lab., 27:58
2. Carpenter et.al. 1949, Am.J.Syphil.Gonnorh. Veneral Dis., 33:164
3. Martin, Billings, Hacney and Thayer. 1967. Public Health Rep, 82:361.
4. Vastine, Dawson, Hoshiwara, Yonega, Daghfous and Messadi. 1974. Appl. Microbiol. 28:688.
5. Collee J. G., Fraser A. G., Marmion B. P., Simmons A., (Eds.), 1996, Mackie and McCartney, Practical Medical Microbiology, 14th Ed., Chruchill Livingstone.

GMP Good Manufacturing Practices Certified	IVD For In Vitro Diagnostic Use	QTY. Quantity	LOT/ B. NO. Lot / Batch Number	REF Catalogue Number	Manufacturer
Temprature Unit	EC REP MedNet GmbH Borkstrasse 10, 48163 Muenster, Germany Authorized Representative	CE 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