CM 20,064 – AMPICILLIN DEXTRIN BROTH BASE

INTENDED USE

Fordifferentialand selective isolation of Aeromonas species from water samples.

PRODUCTSUMMARYAND EXPLANATION

Aeromonas isubiquitous inthe environment, present in all times of water worldwide, as well as in food and soil. There are approximately 16 different species in this genus, the best known of which is Aeromonas hydrophila. Physiologically, Aeromonas are similar to bacteria in the coliform group and can be isolated from similar environments including aquatic environments, including freshwater, estuarine, brackish, and salt waters. Some members of this group of bacteria have been implicated in human disease, although not all strains appear to be pathogenic to human. Aeromonas species can cause various enteric symptoms in children and adults. This medium is used for differential and selective isolation of Aeromonas species from other gram negative species, from water samples using membrane filter technique.

COMPOSITION

Ingredients	Gms / Ltr
Tryptose	5.000
Dextrin	10.000
Yeast extract	2.000
Sodium chloride	3.000
Potassium chloride	2.000
Magnesium sulphate	0.200
Iron (III) chloride	0.100
Bromothymol blue	0.080

PRINCIPLE

Tryptose is the nitrogenous source and yeast extract is a rich source of vitamin B complex. Sodium chloride maintains the osmotic balance of the medium. Aeromonas forms acid from dextrin which is indicated by change in colour from blue to yellow by the pH indicator bromo thymol blue. The effectiveness of ampicillin as selective agent has been reported by several workers. The selectivity of the medium is increased by the addition of ampicillin.

INSTRUCTION FOR USE

Dissolve 22.38grams in 1000 ml distilled water.
Heat if necessary to dissolve the medium completely.
Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
Cool to 55°C and aseptically add reconstituted contents of one vial of Ampicillin Dextrin Selective Supplement.
□Mix well and dispense as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow to greenish yellow homogeneous free flowing powder.
Appearance of prepared medium	: Dark green coloured clear solution in tubes
pH (at 25°C)	: 8.0±0.1

INTERPRETATION

Culturalcharacteristics observed after incubation with added ampicillin dextrin selective supplement.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Aeromonas hydrophila	7966	50-100	Luxuriant	35-37°C	18-24 Hours
Escherichia coli	25922	50-100	None-poor	35-37°C	18-24 Hours
Staphylococcus aureus	25923	>=10^3	Inhibited	35-37°C	18-24 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

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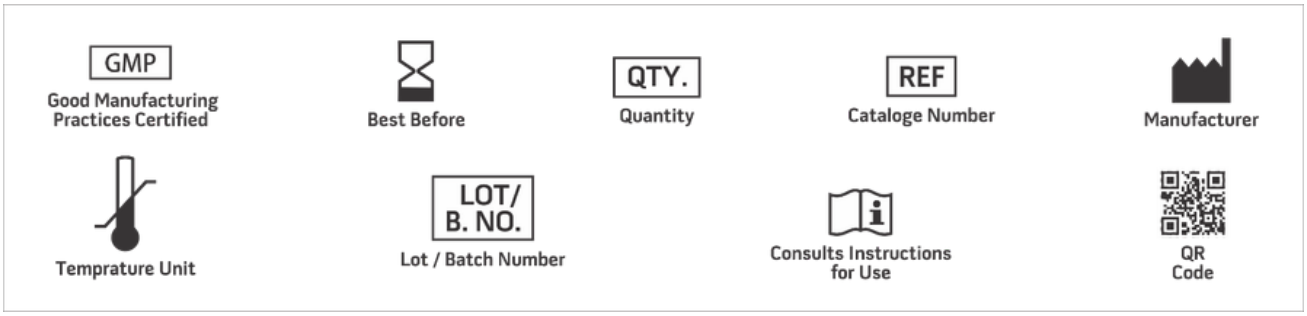

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For LabUse Only