CM 20587 – DIAMALT AGAR (as per APHA)

INTENDED USE

For isolation and identification of yeasts from water sample.

PRODUCT SUMMARY AND EXPLANATION

Fungi includingyeasts and filamentous species ormoulds are ubiquitously distributed in the environment. The association between fungaldensities and organic loading suggests that fungi may be useful indicators of pollution. Fungi have also been found inpotable water and on the inner surface of distribution system pipes. Of the total number of fungal colonies obtained frompolluted waters, as many as 50% may be yeast colonies.
Diamalt Agarisused for isolation and identification of yeast from water samples as recommended by APHA. Solid media such as DiamaltAgar is used for counting fungal colonies from various samples either directly by using pour plate method or spread platemethod or following enrichment. Diamalt Agar is also useful in the purification of yeast isolates and for study of yeastspecies in various specified tests.

COMPOSITION

Ingredients	Gms / Ltr
Diamalt	150.000
Agar	20.000

PRINCIPLE

Themedium consists of Diamalt which provides an acidic environment with necessary nutrients for growth and metabolism of yeasts. Standard procedures for isolation of fungal and yeast cells should be followed.

INSTRUCTION FOR USE

Dissolve 17 grams in100 ml purified/distilled water.
Heat to boiling to dissolve the medium completely.
Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. The medium will be turbid but filtration is not necessary.
Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to beige homogeneous free flowing powder.
Appearance of prepared medium	: Dark amber coloured, clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 6.6 ± 0.2

INTERPRETATION

Culturalcharacteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period

Candida albicans	10231	10-100	Luxuriant	>=70%	30 °C	24-48 Hours
Candida lambica	2146	10-100	Luxuriant	>=70%	30 °C	24-48 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

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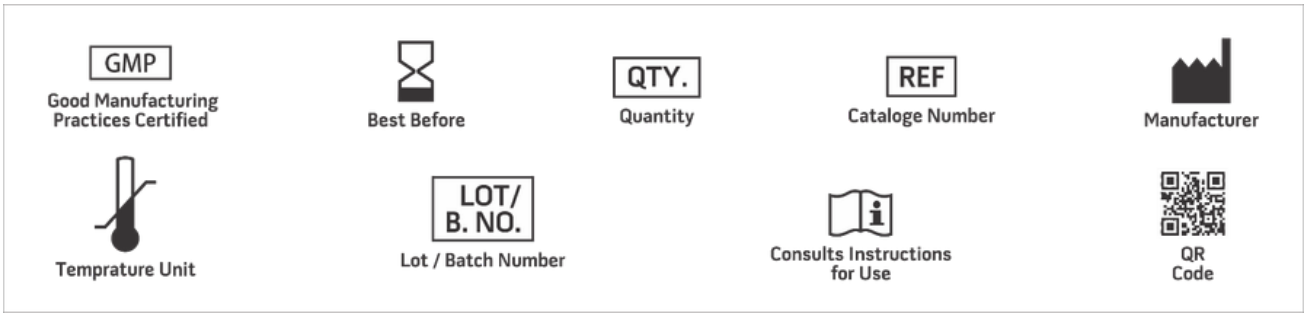
3. Nagy L. A. and Olson B. H., 1985, Proc. American Water Works Assoc.Water Quality Technology Conf., pg. 213
4. Clesceri L. S., Greenberg A. E., Eaton A. D., (Eds.), Standard Methods for the Examination of Water and Wastewater, 20th Ed., 1998, Published by APHA-AWWA-WPCF, 9-136.



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

*For LabUse Only