



POTATO DEXTROSE BROTH

TM 331

INTENDED USE

For cultivation and enumeration of yeasts and molds

COMPOSITION

Ingredients	Gms/Ltr
Dextrose	20.000
Potato infusion from 200gms	4.000

PRODUCT SUMMARY AND EXPLANATION

POTATO DEXTROSE BROTH is used for the isolation and enumeration and culturing of yeast and molds from samples. Potato Dextrose Broth is recommended by APHA (1) and F.D.A. (2) for plate counts of yeasts and moulds in the examination of foods and dairy products (3). Potato Dextrose Broth is also used for stimulating sporulation, for maintaining stock cultures of certain dermatophytes and for differentiation of typical varieties of dermatophytes on the basis of pigment production (4).

PRINCIPLE

Dextrose and Potato infusion promote the growth of yeasts and moulds while the low pH value partially inhibits the growth of the accompanying bacterial flora. If the medium is to be used for fungal counts and enumeration of yeasts and mold, the pH should be adjusted to approximately 3.5 to inhibit bacterial count. By the addition of sterilized 10% tartaric acid solution to 1000ml of sterilized medium to obtain a pH of 3.5. Fungi grow on this medium to develop typical morphology. This general-purpose medium can be supplemented with acid or antibiotics to inhibit bacterial growth.

INSTRUCTION FOR USE

1. Dissolve 24.0 gms in 1000ml distilled water.
2. Gently heat to boiling with gentle swirling and dissolve the medium completely.
3. Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.
4. Cool at room temperature and dispense into sterile test tubes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Off-white to yellow homogeneous free flowing powder

Manufacturer Address: A- 902A, RIICO Industrial Area, Phase III, Bhiwadi-301019.

Corp office Address: 903-909th Floor, Bigjos Tower, Netaji Subhash Place, Delhi-110034.



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PRODUCT DATA SHEET

Appearance of prepared medium: Light yellow colour, slightly opalescent solution
pH (at 25°C): 5.1 ± 0.2

INTERPRETATION:

Cultural characteristics observed after incubation at 25°C for 48-72 hours.

Microorganisms	ATCC	Inoculum (CFU/ml)	Growth
<i>Aspergillus niger</i>	16404	50-100	Luxuriant
<i>Candida albicans</i>	10231	50-100	Luxuriant
<i>Sacchromyces cerevisiae</i>	9763	50-100	Luxuriant

STORAGE & STABILITY

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°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.

REFERENCES

1. Mac Faddin, J. F. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol.1. Williams & Wilkins, Baltimore, MD. (1985).
2. Marshall, (ed.). Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C. (1993).
3. American Public Health Association. Recommended Methods for the Microbiological Examination of Foods. APHA). New York. (1958).
4. Bacteriological analytical manual, 8th ed. AOAC International. Gaithersburg, MD. European Pharmacopoeia 6th edition. (2007).
5. Downes F. P. and Ito K., (Eds.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., APHA, Washington, D.C.
6. FDA Bacteriological Analytical Manual, 2005, 18th Ed., AOAC, Washington, DC.
7. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.

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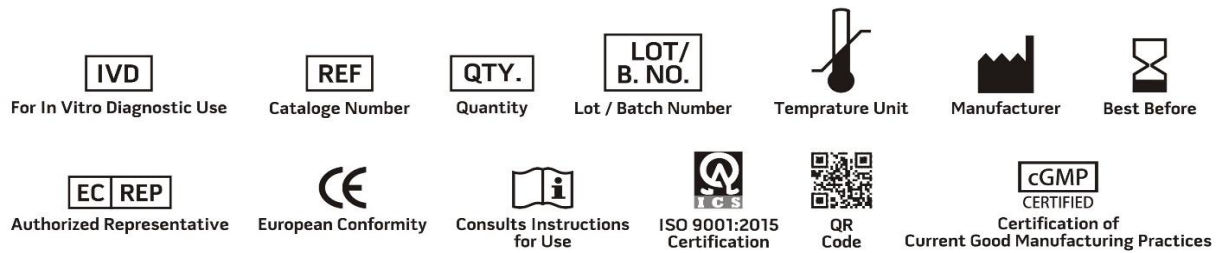
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PRODUCT DATA SHEET



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

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