

## TECHNICAL DATA SHEET

### Potato Dextrose Agar (Harmonized)

#### Principle

Potato dextrose agar is a weakly selective medium for fungi due to its high sugar content and acidic pH. The media composed of potatoes infusion and dextrose. The potatoes infusion provides necessary nutrients for pigment production and mycelium development, specifically in the *Aspergillus*, *Penicillium* and *Fusarium species*. The dextrose serves as carbon source and promotes luxuriant fungal growth. As per JP the selectivity of media can be increased by adding antibacterial antibiotics like benzylpenicillin (0.10 g/l), chloramphenicol (50 mg/l) or tetracyclines (0.10 g/l) after sterilization and prior to use.

**Use:** For the isolation and enumeration of yeasts & molds from dairy & other food products.

#### Contents\*

| Ingredients       | Gram/Litre |
|-------------------|------------|
| Potatoes infusion | 200.00     |
| Dextrose          | 20.00      |
| Agar              | 15.00      |
| pH at 25°C        | 5.6 ±0.2   |

\* Formula adjusted for optimum performance and parameters

**Directions:** Dissolve 39.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45°C, and distribute aseptically in desire and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.

#### Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples, food and dairy products etc.

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## Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

## Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

## Quality Control

|                                   |  |
|-----------------------------------|--|
| Appearance                        | Light beige colored free flowing, homogeneous powder |
| Reaction of 3.9% solution         | 5.6 ±0.2 at 25°C                                     |
| pH                                | 5.40 -5.80   |
| Gelling                           | Firm comparable with 1.5% agar gel                   |
| Color and clarity of ready medium | Light yellow to amber colored opalescent gel         |
| Growth Promotion properties       | Best at ≤ 100 CFU at 20-30°C for 2-7 days            |
| Indicative properties             | Optimum at ≤ 100 CFU at 22-25°C for 2-3days          |
| Negative control                  | Performed using sterile distilled water              |

**Different Microbial Response:** Prepare media as per the label directions. Inoculate and incubate the plates at desired temperature and period. The optimum incubation for Yeasts and molds is 20-25°C for 3-5 days.

| Organism                        | ATCC  | Inoculum (CFU) | Growth    | Recovery |
|---------------------------------|-------|----------------|-----------|----------|
| <i>Candida albicans</i>         | 10231 | 50-100         | Luxuriant | ≥ 70%    |
| <i>Saccharomyces cerevisiae</i> | 9763  | 50-100         | Luxuriant | ≥ 70%    |
| <i>Aspergillus brasiliensis</i> | 16404 | 50-100         | Luxuriant | ≥ 60%    |

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**Storage and Shelf Life:** The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

**Disposal:** To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

## Reference

1. **British Pharmacopoeia, 2016, The Stationery office British Pharmacopoeia**
2. **Difco Manual (1998). 11<sup>th</sup> Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
3. **European Pharmacopoeia, 2017, European Dept. for the quality of Medicines.**
4. **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.**
5. **The Japanese Pharmacopoeia, 17<sup>th</sup> Ed. (2016), The Ministry of Health, Labour and Welfare.**
6. **The United States Pharmacopoeia, (2014), The United States Pharmacopeial Convention. 12601 Twinbrook Parkway, Rockvukke, MD 20852.**

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