



Technical Data Sheet

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Potato Dextrose Agar (Harmonized)

RDM-H-PDA-01

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: Recommended for the cultivation of yeasts and molds from pharmaceutical products in accordance with media for microbial limit testing by harmonized principles of USP/JP.

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 etc.

Precautions to be taken

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%

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). 11th 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, 17th Ed. (2016), The Ministry of Health, Labour and Welfare.
6. The United States Pharmacopoeia, (2014), The United States Pharmacopoeial Convention. 12601 Twinbrook Parkway, Rockville, MD 20852.

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