

## CM 2237 – POTATO DEXTROSE AGAR (USP/EP/BP/JP/IP)

### INTENDED USE

For isolation and enumeration of yeast and moulds from clinical, dairy and other food products

### PRODUCT SUMMARY AND EXPLANATION

Potato dextrose agar (PDA) is general purpose medium used for cultivation and enumeration of yeast and molds. It 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. It is recommended by USP, BP, EP and JP for growth of fungi. The USP lists Potato Dextrose Agar as one of the recommended media for use in the Microbial Enumeration Tests when testing non-sterile pharmaceutical products.

### COMPOSITION

Ingredients	Gms / Ltr
Dextrose	20.000
Agar	15.000
Potato infusion from 200gms	4.000

### 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. Agar is a solidifying agent.

### INSTRUCTION FOR USE

1. Potato Dextrose Agar is a ready to use solid media in glass bottle. The medium is pre-sterilized, hence sterilization is not required.
2. Prior to use, medium in the bottle can be melted either by using a pre-heated water bath or any other method.
3. Slightly loosen the cap before melting.
4. Pour liquefied agar into each plate as desired and allow them to solidify at room temperature. Plates are now ready to inoculate or refrigerate for later use

### QUALITY CONTROL SPECIFICATIONS

<b>Appearance</b>	:	Light yellow color, slightly opalescent gel.
<b>Quantity of Medium</b>	:	100 ml of the medium in glass bottle
<b>pH (at 25°C)</b>	:	5.6 ± 0.2
<b>Sterility Check</b>	:	Passes release criteria

### INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Appearance of colony	Zone Diameter/Recovery	Incubation Temp.	Incubation Period
<i>Aspergillus brasiliensis</i>	16404	10-100	Luxuriant	White mycelium, black spores	≥ 70%	20-25°C	≤ 5 Days
<i>Candida albicans</i>	10231	50-100	Luxuriant	Whitish convex,	≥ 70%	30-35°C	18-48 Hours



				entire dimorphic			
<i>Candida albicans</i>	10231	50-100	Luxuriant	Whitish convex, entire dimorphic	≥ 70%	20-25°C	≤3 days
<i>Penicillium commune</i>	10428	Point Inoculation	Good	Cottony green	Good zone diameter	20-25°C	≤ 5 Days
<i>Saccharomyces cerevisiae</i>	9763	50-100	Luxuriant	White to cream	≥ 70%	30-35°C	18-48 Hours
<i>Trichoderma viride</i>	20476	Point	Luxuriant	Cottony bluish-green	Good zone diameter	20-25°C	≤ 5 Days

#FormerlyKnownAsAspergillus niger. Inoculation

### PACKAGING

100 ml glass bottle.

### STORAGE

On receipt, store bottles in the dark at 10 to 25° C. Avoid freezing and overheating. The medium may be used up to the expiration date and incubated for the recommended incubation times. Bottles from unopened packages can be used up to the expiration date. Opened bottles must be used immediately. To prepare plates or tubes from the bottled medium, it must first be liquefied. Do not liquefy any leftovers for a second time

**Product Deterioration:** Do not use bottles if they show evidence of microbial contamination, discoloration, or any other signs of deterioration.

### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

### REFERENCES

1. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.
2. European Directorate for the Quality of Medicines and Healthcare. 2008. The European pharmacopoeia, 6th ed., Supp. 1, 4-1-2008, online. European Directorate for the Quality of Medicines and Healthcare, Council of Europe, 226 Avenue de Colmar BP907-, F-67029 Strasbourg Cedex
3. 1, France. Japanese Ministry of Health, Labour and Welfare. 2006. The Japanese pharmacopoeia, 15th ed., online. Japanese Ministry of Health, Labour and Welfare.
4. Mac Faddin, J. F. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol.1. Williams & Wilkins, Baltimore, MD.
5. (1985). Association of Official Analytical Chemists. Bacteriological analytical manual, 8th ed. AOAC International, Gaithersburg, MD. (1995).
6. Downes and Ito (ed.). 2001. Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.
7. Horwitz (ed.). 2007. Official methods of analysis of AOAC International, 18th ed., online. AOAC International, Gaithersburg, Md.
8. U.S. Food and Drug Administration. Bacteriological analytical manual, online. AOAC International, Gaithersburg, Md.
9. Wehr and Frank (ed.). 2004. Standard methods for the examination of dairy products, 17th ed. American Public Health Association, Washington, D.C.
10. Murray, Baron, Jorgensen, Landry and Pfaller (ed.). 2007. Manual of clinical microbiology, 9th ed. American Society for Microbiology, Washington, D.C.
11. Isenberg and Garcia (ed.). 2004 (update, 2007). Clinical microbiology procedures handbook, 2nd ed. American Society for Microbiology, Washington, D.C.



**QTY.**  
Quantity

**LOT/  
B. NO.**  
Lot / Batch Number

  
Temperature Unit

  
Manufacturer

  
Best Before

**GMP**  
Certification of  
Good Manufacturing Practices

**REF**  
Catalogue No.

**EC REP** MedNet GmbH  
Buckstrasse 10,  
45163 Muenster, Germany  
Authorized Representative

**CE**  
European Conformity



  
Consults Instructions for use :

**IVD**  
For In Vitro Diagnostic Use

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

**\*For Lab UseOnly**

