

Product Data Sheet

POTATO DEXTROSE AGAR

Product No. GB-DCM-00451-1A

INTENDED USE

For isolation and enumeration of yeasts and molds from dairy and other food products.

PRODUCT SUMMARY

Potato Dextrose Agar is recommended by APHA and F.D.A. for plate counts of yeasts and moulds in the examination of foods and dairy products. Potato Dextrose Agar 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 also recommended by USP, BP, EP and JP for growth of fungi.

Product Specifications

Ingredients	Gms / Ltr
Potato extract	4.000
Dextrose	20.000
Agar	15.000

PRINCIPLE

The medium consists of Potato extract and dextrose that promote luxuriant fungal growth. Adjusting the pH of the medium by tartaric acid to 3.5, inhibits the bacterial growth. Heating the medium after acidification should be avoided as it may hydrolyze the agar which can render the agar unable to solidify.

INSTRUCTION FOR USE

- Dissolve 39 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi (121° C) for 15 minutes.
- Mix well before dispensing.
- In specific work, when pH 3.5 is required, acidify the medium with sterile 10% tartaric acid. The amount of acid required for 100 ml of sterile, cooled medium is approximately 1 ml. DO NOT HEAT the medium after addition of the acid.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium: Light amber coloured clear to slightly opalescent gel forms in Petri plates.

pH (at 25°C) : 5.6± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Ascospore formation	Incubation Temperature	Incubation Period
Aspergillus brasiliensis	16404	50-100	Luxuriant	>=70 %	Negative	22-25°C	4-5 Days
Candida albicans	10231	50-100	Luxuriant	>=70 %	Negative	22-25°C	4-5 Days
Saccharomyces cerevisiae	9763	50-100	Luxuriant	>=70 %	Positive	22-25°C	4-5 Days

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

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

This product is for research use only.