

PRODUCT INFORMATION

Product Type: Tubes (16*150)

Cat No. TT192 - POTATO DEXTROSE AGAR + CHL + ACTIDIONE

Intended Use:

The PDA medium supplemented with Yeast extract, Actidione (cycloheximide), and Chloramphenicol is a selective growth medium designed primarily to support the growth of Dermatophytes, while inhibiting the growth of most other filamentous fungi and bacteria.

Principles and uses:

Its applications span clinical diagnostics mainly for isolating Dermatophytes. Potato extract provides essential nutrients, while dextrose serves as a carbon source, supporting the growth of fungi. Yeast Extract adds extra vitamins, amino acids, and growth factors that enhance the medium's ability to support the growth of fungi. Actidione (Cycloheximide) at concentration of 0.20 g/L allows the growth of dermatophytes but inhibits the growth of most filamentous fungi and other eukaryotic microorganisms. Chloramphenicol antibiotic inhibits bacterial growth, ensuring that bacterial contamination does not interfere with the growth of fungi. Chloramphenicol is a broad-spectrum antibiotic effective against a wide range of bacteria.

Formula

Potato Extract 4.0 g/L

Dextrose 20.0 g/L

Agar 15.0 g/L

Yeast extract 2.50 g/L

Actidione=cycloheximide 0.20 g/L

Chloramphenicol 1.0 g/L

Storage: 2-8 °C

Final pH: 5.4 - 5.8

Appearance: Light Amber

Package contents: 20 Tubes

Shelf life: 4 months

Exp. Date: Printed on label and on the item.

Required materials not supplied: Laboratory equipment as required.

Warning and Precautions:

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Tubes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Tubes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

Waste Disposal

After interpretation all items should be destroyed by standard incineration methods.

Performance Testing Results:

Streaking from fresh colony culture.

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond.	Reaction 1	
<i>Trichophyton rubrum</i>	W.S.			Growth	White mycelium
<i>Candida albicans</i>	10231	20-25 °C	Aerobic, up to 7 days	Growth	
<i>Penicillium notatum</i>	10108	20-25 °C	Aerobic, up to 7 days	Inhibited	
<i>Penicillium expansum</i>	7861	20-25 °C	Aerobic, up to 7 days	Inhibited	
<i>Aspergillus brasiliensis</i>	16404	20-25 °C	Aerobic, up to 7 days	Inhibited	
<i>Escherichia coli</i>	25922	20-25 °C	Aerobic, up to 7 days	Inhibited	
<i>Staphylococcus aureus</i>	25923	20-25 °C	Aerobic, up to 7 days	Inhibited	