

## PRODUCT INFORMATION

**Product Type:** TT128 - TUBES: SDA + Chloramphenicol slanted.

BP257-100/200/400ml

PD080 - Polystyrene 90mm Petri dishes

**Cat No. TT128 / BP257 / PD080 - SDA + CHLORAM.**

### Intended Use:

Selective isolation of saprophytic and pathogenic fungi.

### Principle:

Sabouraud Dextrose Agar is a general-purpose medium used in the cultivation of yeasts, molds and aciduric microorganisms. It is also recommended for the testing of cosmetics and food. Culture media used in qualitative procedures for cultivation of pathogenic and nonpathogenic fungi, particularly dermatophytes associated with skin infection. Enzymatic Digest of Casein and Enzymatic Digest of Animal Tissue provide the nitrogen and vitamin sources required for organism growth in Sabouraud Dextrose Agar W/ Chloramphenicol. The high concentration of Dextrose is included as an energy source. Chloramphenicol is a broad-spectrum antibiotic inhibitory to a wide range of Gram-negative and Gram-positive bacteria. Agar is the solidifying agent. The addition of antimicrobics is a modification designed to increase bacterial inhibition, for the selective isolation and cultivation of fungi, particularly yeasts and molds. The addition of Chloramphenicol, an antibiotic, to the standard Sabouraud Dextrose Agar enhances the medium's selectivity by suppressing the growth of bacteria, allowing fungal organisms to thrive without competition. The low pH of approximately 5.6 is favorable for the growth of fungi and slightly inhibitory to contaminating bacteria in clinical specimens. General Chapters 61 and 62 of the USP describe test methods for using Sabouraud Dextrose Agar when performing the microbial enumeration tests and tests for isolating *Candida albicans* from nonsterile pharmaceutical products.

### Composition

Peptic digest of Animal Tissue - 5g/L,

Pancreatic digest of Casein - 5g/L,

Dextrose - 40g/L,

Agar - 15g/L

Chloramphenicol - 0.3g/L

**Storage:** Tubes: 2-8°C Plates: 2-25°C

**pH Range:** 5.4 - 5.8

**Appearance:** light amber.

**Package contents:** 10 plates in a package, 20 tubes in a package

**Package contents:** PD080 - Polystyrene 90mm Petri dishes packaged in sleeves of 10 plates in a "breathable" cellulose bag that prevents build-up of condensation and excess moisture.

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

**Required materials not supplied:** Laboratory equipment as required.

**Warning and Precautions** - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes 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.

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

## Waste Disposal

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

## Performance Testing Results:

### TT128 Tubes:

Streaking From Fresh Colony Culture.

MICROORGANISM	ATCC	Incubation Temp. (°C)	Incubation Cond.	Reaction 1
<i>Candida albicans</i>	10231	20-25 °C	Aerobic, 3-5 days	Good
<i>Trichophyton rubrum</i>	WS	20-25 °C	Aerobic, 3-5 days	Good, White mycelium
<i>Aspergillus brasiliensis</i>	16404	20-25 °C	Aerobic, 3-5 days	Good
<i>Escherichia coli</i>	25922	20-25 °C	Aerobic, 3-5 days	Inhibited
<i>Staphylococcus aureus</i>	25923	20-25 °C	Aerobic, 3-5 days	Inhibited
<i>Staphylococcus aureus</i>	29213	20-25 °C	Aerobic, 3-5 days	Inhibited

### Acceptance criteria

**Physical parameters:** the batch is released if item meets physical parameters and SOP requirements.

**Results:** Test results conform acceptance criteria requirements.

### BP257 Bottles:

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond.	Reaction 1
<i>Candida albicans</i>	10231	20-25 °C	Aerobic, 3-5 days	Pass
<i>Saccharomyces cerevisiae</i>	9763	20-25 °C	Aerobic, 3-5 days	Pass
<i>Penicillium expansum</i>	7861	20-25 °C	Aerobic, 3-5 days	Pass
<i>Aspergillus brasiliensis</i>	16404	20-25 °C	Aerobic, 3-5 days	Pass With spores
<i>Staphylococcus aureus</i>	25923	20-25 °C	Aerobic, 3-5 days	Inhibited
<i>Escherichia coli</i>	25922	20-25 °C	Aerobic, 3-5 days	Inhibited

### Acceptance criteria

1. Performance: the batch is released if color and morphology of the colonies meet QC requirements.

**Pass:** for target organisms actual count correlates from 70% upwards to the count on control.

**For inhibited organisms:** no growth detected.

2. **Sterility:** the batch is released if item meets sterility SOP requirements

**PD080/DW:****GPT:** Inoculum 10-100 cfu**Inhibitory properties:** inoculum 10000 cfu

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond.	Reaction 1
<i>Trichophyton rubrum</i>	WS	20-25 °C	Aerobic, up to 5 days	Good
<i>Penicillium notatum</i>	10108	20-25 °C	Aerobic, up to 5 days	Pass
<i>Aspergillus brasiliensis</i>	16404	20-25 °C	Aerobic, up to 5 days	Pass
<i>Candida albicans</i>	10231	20-25 °C	Aerobic, up to 5 days	Pass
<i>Saccharomyces cerevisiae</i>	9763	20-25 °C	Aerobic, up to 5 days	Pass
<i>Escherichia coli</i>	25922	20-25 °C	Aerobic, up to 5 days	Inhibited
<i>Staphylococcus aureus</i>	25923	20-25 °C	Aerobic, up to 5 days	Inhibited
<i>Candida albicans.</i>	10231	30-35 °C	Aerobic, 24 hours	Pass

**Acceptance criteria**

1. Performance: the batch is released if microbial count from minimum inoculum correlates to that on control medium inoculated parallelly.

The acceptance criteria are at least 70% recovery.

\*Yeasts grow creamy to white colonies.

\*Molds will grow as filamentous colonies of various colors