

TECHNICAL DATA SHEET

SABOURUAD DEXTROSE AGAR PLATES

P90/SDA 3G-20

INTENDED USE

Recommended for the cultivation of pathogenic and non-pathogenic fungi (yeasts, moulds) from pharmaceutical products in accordance with the microbial limit testing by harmonized methodology of USP/EP/BP/JP.

TYPE OF SAMPLE

- Pharmaceutical
- Food

PRINCIPLE

Sabouraud Dextrose Agar (SDA) is a specialized medium designed to support the growth of fungi and yeasts.

It contains:

- **Peptones** (digests of animal tissues) as a rich source of amino acids and nitrogenous compounds.
- **Dextrose** as the primary energy and carbon source.
- **Agar** as the solidifying agent.

To suppress bacterial contamination, **chloramphenicol** and/or **tetracycline** are incorporated as broad-spectrum antibiotics, while **gentamicin** is added to further inhibit gram-negative bacteria. The medium's **acidic pH (approximately 5.6)** enhances fungal growth, particularly dermatophytes, and discourages bacterial proliferation. The combination of high dextrose concentration and low pH creates an environment favorable for fungal isolation from clinical specimens.

INGREDIENTS

Approximate Formula Per Liter	
Dextrose	40.0 g
Peptone	10.0 g
Agar	15.0 g
pH at 25°C is 5.6 ±0.2	

PHYSICAL PARAMETERS OF PREPARED PLATES

- Appearance: 90 mm petri plates with a smooth surface and absence of any particles, cracks, or bubbles.
- Colour: Light Yellow
- Clarity: Opalescent

STERILITY CHECK

Sterility of the plates is checked by incubating the plates at 20°C - 25°C for 72 hours

MICROBIAL PERFORMANCE DATA

Culture characteristics observed after inoculating 50-100 CFU and incubate at 20°C - 25°C for 48-72 hours.

Test Strains	ATCC No.	Atmosphere	Growth
<i>Aspergillus brasiliensis</i>	16404	Aerobic	Good
<i>Candida albicans</i>	10231	Aerobic	Good

LIMITATIONS & COMPLEMENTARY TESTS

- For identification, organisms must be in pure culture.
- Morphological, biochemical, and/or serological tests should be performed for final identification.

PRECAUTIONS

- Read the label details and storage before opening the pack.
- Wear protective gloves / protective clothing / eye protection / face protection.
- Follow good microbiological lab practices while handling specimens and culture.

PACK SIZE AND PACKAGING

20 plates per kit packed with gamma irradiated packing material.

STORAGE & SHELF LIFE

- Store at 20 -30 °C
- Use before the expiry date mentioned on the label.
- Product is temperature sensitive; protect from direct sunlight, excessive heat, moisture, and freezing.

DISPOSAL

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Materials that have come in contact with infectious / clinical samples must be decontaminated and disposed of in accordance with current laboratory techniques and regulations.