

TECHNICAL DATA SHEET

TRYPTIC SOYA AGAR PLATES

P90/TSA - 20

INTENDED USE

Tryptic Soya Agar (Soybean Casein Digest Agar) is used for isolation and cultivation of a wide variety of microorganisms.

TYPE OF SAMPLE

- Pharmaceutical
- Clinical
- Food

PRINCIPLE

Pancreatic digest of casein and papaic digest of soybean meal provides nitrogen, vitamins, and minerals. This makes it suitable for the growth of a wide variety of fastidious and non-fastidious microorganisms. Glucose serves as a carbohydrate source. Phosphate buffers the media. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent.

INGREDIENTS

Approximate Formula Per Liter	
Pancreatic Digest of Casein	15.0 g
Papaic Digest of Soybean	5.0 g
Sodium Chloride	5.0 g
Agar	15.0 g
Final pH 7.3 ± 0.2 at 25°C	

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: Slightly Opalescent
- Volume: 20-22 ml

STERILITY CHECK

Sterility of the plates is checked by incubating the plates at 30-35°C for 5 days.

MICROBIAL PERFORMANCE DATA

Culture characteristics observed after inoculating 50-100 CFU and incubate at 20°C - 25°C for 72 hours and 30°C - 35°C for 48 hours.

Test Strains	ATCC No.	Inoculum	Growth	Incubation Temperature
<i>Escherichia coli</i>	ATCC 8739	50-100 CFU	Good	30°C - 35°C
<i>Staphylococcus aureus</i>	ATCC 6538	50-100 CFU	Good	30°C - 35°C
<i>Pseudomonas aeruginosa</i>	ATCC 9027	50-100 CFU	Good	30°C - 35°C
<i>Bacillus subtilis</i>	ATCC 6633	50-100 CFU	Good	30°C - 35°C
<i>Salmonella sp.</i>	NCTC 6017	50-100 CFU	Good	30°C - 35°C
<i>Candida albicans</i>	ATCC 10231	50-100 CFU	Good	20°C - 25°C
<i>Aspergillus brasiliensis</i>	ATCC 16404	50-100 CFU	Good	20°C - 25°C

LIMITATIONS & COMPLEMENTARY TESTS

- This medium is general purpose medium and may not support the growth of fastidious organisms.

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.