Tryptic Soy Agar, TSA | AS-1370

Used for the isolation and cultivation of aerobic non-fastidious and fastidious microorganisms.

Tryptone Soya Agar (TSA) is a non-selective medium and is commonly used in microbiology to cultivate and enumerate a wide variety of bacteria.
Soy and casein peptones provide a wide range of peptides and amino acids. Sodium chloride preserves osmotic balance. Agar is used as solidifying agent.
Because of adaptability of TSA, it can be used for a wide range of microbiological tasks, such as enumeration and isolation, sterility testing, assessing the effectiveness of preservatives, and serving as a foundation for differential media like blood agar. It is recommended by pharmacopoeias and ISO standards.

Composition (gr/L)	
Pancreatic digest of Casein	15
Papaic digest of Soybean Meal	5
Sodium Chloride	5
Agar	15
Final pH at 25°C	7.3 ± 0.2

Preparation

Dissolve 40 g of the powder into 1 liter distilled water. Autoclave at 121 °C for 15 minutes.

Quality Control

Dehydrated Appearance: Light beige, free-flowing, homogeneous.
Prepared Appearance: Light amber, slightly opalescent.
Reaction of 4.0% Solution at 25°C: pH 7.3 ± 0.2

Microbial Test Results

Incubate at 35 ± 2 °C for 18 to 48 hours.

Organism (ATCC)	Recovery
Escherichia coli (25922)	Good
Candida albicans (10231)	Growth
Staphylococcus aureus (25923)	Good
Bacillus subtilis (6633)	Growth
Streptococcus pyogenes (19615)	Good

Storage

Keep the container at 15-30 °C and prepared medium at 2-8 °C.