

MM0107

TSA
(Tryptone Soy Agar)

Use and description:

Nutrient medium for a wide range of microorganisms. The formula conforms to the United States Pharmacopeia for sterility testing. A blood agar medium can be prepared with the addition of 5 to 10% sterile defibrinated sheep blood and can be used for the determination of haemolytic reactions of pathogenic microorganisms in clinical specimens.

Composition per liter:

Sodium chloride.....5.0 g
Agar.....14.0 g
Soy peptone.....5.0 g
Tryptone.....15.0 g

Final pH of the ready to use medium: 7.3 ± 0.2

Medium preparation:

Add 39 grams of dehydrated culture medium to 1 liter of distilled water. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave for 15 min at 121°C.

Quality specification:

Dehydrated medium: homogeneous, beige, fine powder.
Ready to use medium: amber coloured, slightly opalescent agar.

Microbiological response:

Organism	Result
<i>Escherichia coli</i> ATCC 25922	Good to excellent growth
<i>Staphylococcus aureus</i> ATCC 25923	Good to excellent growth
<i>Pseudomonas aeruginosa</i> ATCC 10145	Good to excellent growth
<i>Salmonella typhimurium</i> ATCC 14028	Good to excellent growth

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dry, dark place. The dehydrated medium should not be used if there is any lump or the color has changed from the original.