SIGMA-ALDRICH®

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Product Information

57994 Tryptic Soy Agar Plates

Tryptic Soy Agar is a general purpose culture medium for cultivation, isolation of fastidious or nonfastidious microorganisms or for maintenance of stock culture. Prepared solid medium used for general purposes containing animal and plant peptone acc. ISO 9308-1 standard. Used for the precultivation and enumeration (*E. coli*) acc. to membrane-filter technique. It is suitable for the cultivation both of aerobes and anaerobes. 55 mm plates in blister packs. Each blister pack comes in a sealed flowpack bag. This kind of packaging avoides fast dehydration and contamination.

Composition:

Ingredients	Grams/Litre
Casein peptone (pancreatic)	15.0
Soya peptone (papainic)	5.0
Sodium chloride	5.0
Agar	15.0
Final pH 7.3 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C.

Plates in blister packages: One package contains 30 plates (plate diam. 55mm). Store at room temperature, protected from direct light.

Principle and Interpretation:
Casein peptone and Soya peptone provide nitrogen, vitamins and minerals. The natural sugars from Soya peptone promote bacterial growth. Sodium chloride is for the osmotic balance.

Cultural characteristics after 18-48 hours at 35ºC (if necessary 76 hours).

Organisms (ATCC)	Growth
Escherichia coli (8739)	+++
Staphylococcus aureus (6538)	+++
Bacillus subtilis (6633)	+++
Candida albicans (2091)	+++
Aspergilus niger (16404)	+++

References:

1. L.S. Clesceri, A.E. Greenberg, R.R. Trussell., Standard Methods for the Examination of Water and Wastewater. 17th ed. American Public Health Association, Washington, D.C. (1989)
2. Anon. (1987) J. Food Microbiol. 5. 291-296.
3. F.P. Downes, K. Ito, Compendium of Methods for the Microbiological Examination of Food 4th ed., ASM, Washington, D.C. (2001)
4. ISO 9308-1 Standard, Water Quality – Detection and enumeration of E. coli and coliform bacteria. Membrane filtration method.