Media Type - Tryptic Soy Agar (TSA) with Glucose (Non pharmacopeial formulation)

Also known as Tryptone soy agar + 1% glucose, Tryptic soy agar + 1% glucose, Casein soya bean digest agar + 1% glucose, Soybean-casein digest agar medium + 1% glucose.

Primary Use: General-purpose medium for the cultivation and isolation of a wide variety of microorganisms.

Typical Composition:

Component	Amount (per litre)
Tryptone Soya Aga	40.0 g
Glucose (dextrose)	10.0 g
pH	7.0 ± 0.2

Applications:

- Environmental monitoring.
- Microbial enumeration.
- Base medium for enriched media.

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Appearance:

- Pale straw to straw-coloured, slightly opaque medium.

Microorganism	Morphology	Colony Appearance
Staphylococcus aureus	Gram-positive cocci	Yellow or cream colonies
Escherichia coli	Gram-negative rods	Cream-coloured colonies
Pseudomonas paraeruginosa	Gram-negative rods	Cream-coloured colonies
Bacillus spizizenii	Gram-positive rods	Large, cream-coloured colonies
Candida albicans	Yeast	Cream-coloured colonies
Aspergillus brasiliensis	Filamentous fungi	White to black colonies
Staphylococcus epidermidis	Gram-positive cocci	Yellow or cream colonies

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Incubation Parameters:

Microorganism Type	Temperature Range	Incubation Duration
Bacteria	30-35°C	Up to 2 days
Fungi (*Candida, Aspergillus*)	20-25°C	Up to 5 days

All formulations are recommended formulations referenced in Quality Assurance of Aseptic Preparation Services: Standards Handbook, Fifth Edition, Parts A and B Edited by Alison M Beaney and D Prof, MSc, FRPHramS, Part B – I, MICROBIOLOGICAL ENVIRONMNENTAL MONITORING TECHNIQUES FOR THE LABORATORY, Section 14 – Suitable media formulae, pages 171 – 173.

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7 & 8 Launton Business Centre, Murdock Road, Bicester, OX26 4XB, United Kingdom

T. +44 (0)1869 355500 E. sales@cherwell-labs.co.uk

www.cherwell-labs.co.uk