

Media Type - Tryptone Soya Agar (TSA)

Organisms & morphology: Tryptone Soya Agar will support the growth of a wide range of aerobic and anaerobic bacteria if incubated under the right conditions. A typical set of control organisms and the phenotypic identification associated with these are:

Organism	Morphology			Gram		Biochemical test	
	Edge	Shape	Colour	Gram	Shape	Catalase	Oxidase
Staphylococcus aureus	Smooth	Regular	Yellow / Cream	Positive	Cocci	Positive	Negative
Staphylococcus epidermidis	Smooth	Regular	Yellow / Cream	Positive	Cocci	Positive	Negative
Escherichia coli	Smooth	Regular	Cream	Negative	Rods	Positive	Negative
Bacillus subtilis	Irregular	Irregular	Cream	Positive	Rods	Positive	Variable
Pseudomonas aeruginosa	Smooth	Regular	Cream	Negative	Rods	Positive	Positive

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	Morphology		
Fungal	Edge	Shape	Colour
Candida albicans	Smooth	Regular	Cream
Aspergillus brasiliensis	Irregular	Irregular	White to black

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Regulatory references: TSA is a Harmonised Pharmacopoeia medium and as such is mentioned in the BP/EP/JP, as well as the US Pharmacopoeia.

EP Chapter Ref 2.6.12 Microbial examination of non-sterile products: Microbial enumeration tests

Recommended Culture Media	Property	Micro-organisms	Incubation Time & Temp
Casein Soyabean Digest Agar	Growth promotion	Bacillus subtilis Pseudomonas aeruginosa Staphylococcus aureus	30-35°C for < 3 days
	Growth promotion	Candida albicans Aspergillus brasiliensis	30-35°C for < 5 days

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