

Triple Sugar Iron Agar (TSI)

N° Cat: 1046

N° Batch: 210133

Re-test Date: 10/2025



Formula in g/l

Bacteriological agar	12	Ferric ammonium citrate	0,3
Glucose monohydrate	1	Beef extract	3
Phenol red	0,025	Sodium chloride	5
Sodium thiosulfate	0,3	Sucrose	10
Yeast extract	3	Lactose monohydrate	10
Mixture of peptic digest of animal tissue and pancreatic digest of casein (1:1)	20		

Typical formula g/L * Adjusted and/or supplemented as required to meet performance criteria.

Quality control

Solubility	Appearance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°)	Batch pH
w/o rests	Fine powder	Pink	Red	7,4±0,2	7,2

Microbiological test

Incubation conditions: (35±2 °C / 18-72 h)

Microorganisms	Specification	Characteristic reaction
Shigella flexneri ATCC 12022	Good growth	Red slant, yellow depth, H2S (-), gas (-)
Proteus vulgaris ATCC 13315	Good growth	Yellow slant, yellow depth, H2S (+), gas (+)
Salmonella typhimurium ATCC 14028	Good growth	Red slant, yellow depth, H2S (+), gas (+)
Escherichia coli ATCC 25922	Good growth	Yellow slant, yellow depth, H2S(-), gas (+)

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