

## TRIPLE SUGAR IRON (TSI) AGAR, PH EUR

A differential medium for the differentiation of bacteria on the basis of carbohydrate fermentation and hydrogen sulphite production according to PH EUR (Agar Medium M) and several ISO standards.

Dehydrated media			
Code number: 500 g: TSI20500, 5 kg: TSI25000			
Colour:	Yellowish		
Appearance:	Homogeneous hygroscopic powder		
pH before autoclaving (25 °C):	7,2 – 7,6		

**Direction:** Suspend 66 g in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position to form slant with deep butt.

Prepared media	
Bottled media:	100 ml: TSI30100 500 ml: TSI30500
Tubed media:	100 x 12 mm: TSI40003 (3 ml, slant with deep butt)
Colour:	Yellow onion
рН (25 °C):	7,3 – 7,5

**Direction:** Dispense the melted bottled media aseptically into sterile test tubes. Allow to cool in slanted position to form slant with deep butt. Media in tubes are ready to use.

## FORMULA in g/l

Peptones	20,000
Beef extract	3,000
Yeast extract	3,000
Lactose monohydrate	10,000
Sucrose	10,000
Glucose	1,000
Sodium chloride	5,000
Sodium thiosulphate	0,300
Ferric citrate	0,300
Phenol red	0,024
Agar	13,400

**Note:** The typical formula can be adjusted to obtain optimal performance.

**Storage conditions:** Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled media protected from light at room temperature. Store the tubed media protected from light at 2-8 °C. Use before the expiry date on the label.

## **Quality control:**

Test strains	Incubation temp: 37 °C	Reactions		Incubation time: 24 h	
		Slant	Butt	Gas	H <sub>2</sub> S
Escherichia coli	ATCC 25922	yellow	yellow	+	-
Salmonella typhimurium ATCC 14028		red	yellow	+	+
Pseudomonas aeruginosa ATCC 27853		red	red	-	-

References: European Pharmacopoeia

ISO 6579-1:2017, ISO 19250:2010, ISO 21567

In vitro diagnostic - for professional use only!