

PharmaBio® TRIPLE SUGAR IRON (TSI) AGAR

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: PTSI20500, 5 kg: PTSI25000
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: PTSI30100 500 ml: PTSI30500
Tubed media:	100 x 12 mm: PTSI40003 (3 ml, slant with deep butt)
Colour:	Yellow onion
pH (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: See the next page

References: European Pharmacopoeia

In vitro diagnostic – for professional use only!

PharmaBio® TSI

Code number:	PTSI
Lot:	
Manufacture date:	
Expiry date:	

DESCRIPTION

Type of culture medium:	
Packaging:	
Formula:	
Peptones20 g	Sodium chloride5 g
Beef extract..... 3 g	Sodium thiosulphate 0,3 g
Yeast extract..... 3 g	Ferric citrate 0,3 g
Lactose x 1H ₂ O10 g	Phenol red.....0,024 g
Sucrose10 g	Agar..... 13,4 g
Glucose 1 g	Distilled waterad 1000 ml
Sterilisation: 121 °C for 15 minutes	

EXTERNAL CONTROL

Dehydrated culture medium	Requirement	Result
Packaging:	Intact	complies
Appearance:	Fine powder	complies
Colour:	Yellowish	complies
Ready to use culture medium	Requirement	Result
Colour:	Yellow onion	complies
Purity:	Transparent	complies
Precipitation:	Free from any precipitation	complies
Gel strength	Suitable for good inoculation	complies

CHEMICAL CONTROL

pH at 25 °C:	Requirement: 7,4 ± 0,2		complies
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MICROBIOLOGICAL CONTROL

Differential ability test:

Incubation temp: 30 - 35 °C	Incubation time: 24 h	Conditions: aerob
Test strains	Requirement	Result
<i>Escherichia coli</i> ATCC 25922	SLANT: yellow BUT: yellow GAS + H ₂ S -	complies
<i>Salmonella typhimurium</i> ATCC 14028	SLANT: red BUT: yellow GAS + H ₂ S +	complies
<i>Pseudomonas aeruginosa</i> ATCC 27853	SLANT: red BUT: red GAS - H ₂ S -	complies

Contamination control:

Incubation temperature: 20 - 25 °C	Incubation time: 7 days	
Result:	No growth	complies
Incubation temperature: 30 - 35 °C	Incubation time: 7 days	
Result:	No growth	complies

This product has been tested by the Quality Control Laboratory and the results are in compliance with the current harmonized protocol according to Pharmacopoeia EP, USP and JP.

This certificate was issued electronically and is valid without signature.