

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 ISO 19250.

| Dehydrated media | |
|--------------------------------|---------------------------------|
| Code number: | 500 g: TSI20500, 5 kg: TSI25000 |
| Colour: | Pinkish |
| 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: | Onion red |
| 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:

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

References: European Pharmacopoeia
ISO 19250:2010(E)

In vitro diagnostic – for professional use only!