

**TRYPTONE TRYPTOPHAN MEDIUM**

A liquid medium for the production of indole by microorganisms, according to ISO 6579

**TYPICAL FORMULA (g/l)**

Tryptone	10
Sodium Chloride	5
DL Tryptophan	1

**DIRECTIONS**

Suspend 16g in 1000ml of cold distilled water. Mix well to dissolve the liquid medium, distribute 5ml into tubes and sterilise at 121 °C for 15 minutes

Final pH 7.5 ± 0.2

**DESCRIPTION**

Tryptone Tryptophan medium is recommended by ISO 6579 for indole test for the confirmation procedures of *Salmonella* colonies.

Organisms, possessing the enzyme tryptophanase degrade the tryptophan to produce indole and other metabolic products. The indole production can be determined by the formation of a red-violet colour complex upon application of Kovacs Reagent (REF 19171000). If present, indole reacts with the aldehyde group of p-dimethyleminobenzaldehyde with the development of a red-violet colour.

**TECHNIQUE**

Inoculate a tube containing 5ml of Peptone-Tryptone Water and incubate at 37 °C for 24 ± 3 hours. After incubation add 1ml of Kovacs Reagent. The formation of a red-violet ring indicates a positive reaction. A yellow-brown ring indicates a negative reaction.

**USER QUALITY ASSURANCE** (37 °C-24 hrs)

Indole positive control

*E.coli* ATCC 25922

Indole negative control

*S.typhimurium* ATCC 14028

**STORAGE**

Dehydrated medium: 10-30 °C

User prepared tubes: 3 months at 2-8 °C

Ready to use tubes: 2-8 °C

**REFERENCE**

- ISO 6579:1993 – Microbiology – General guidance on methods for the detection of *Salmonella*.

**PACKAGING**

<b>4021652</b>	<b>Tryptone Tryptophan Medium</b>	<b>500 g (31.3 l)</b>
<b>552165</b>	<b>Tryptone Tryptophan Medium</b>	<b>20 x 8 ml</b>
<b>522165</b>	<b>Tryptone Tryptophan Medium</b>	<b>24 x 3 ml</b>