

**Specification**

Selective medium for the isolation and differentiation of *Salmonella typhi* and other salmonellae from food and other origins

**Formula \* in g/L**

Peptone.....	10,00
Beef extract.....	5,000
Dextrose.....	5,000
Disodium phosphate.....	4,000
Iron sulfate.....	0.300
Bismuth sulfite.....	8,000
Brilliant green.....	0,025
Agar.....	20,00

Final pH 7,6 ±0,2 at 25 °C

\* Adjusted and /or supplemented as required to meet performance criteria

**Directions**

Suspend 52,3 grams of medium in one liter of distilled water. Mix well with frequent agitation. Boil until complete dissolution. AVOID OVERHEATING. DO NOT AUTOCLAVE. Cool to 45°C, mix well and dispense into plates.

**Technique**

Solid medium for the detection of most *Salmonella*, in particular *Salmonella typhi*.

**Quality control**

**Incubation temperature:** 37°C±1,0

**Incubation time:** 24-48 h

**Inoculum:** Practical range ≥ 10<sup>3</sup> CFU (specificity)/ 10<sup>4</sup>-10<sup>6</sup> CFU (Selectivity) according to ISO 11133:2014/Amd 1:2018

**Microorganism**
**Growth**
**Remarks**

*Salmonella typhimurium* ATCC® 14028

Good

Black colonies with bright metallic

*Salmonella enteritidis* ATCC® 13076

Good

Green colonies

*Escherichia coli* ATCC® 25922

Partial inhibition

Brown-green colonies

*Enterococcus faecalis* ATCC® 29212

Inhibited

-

**References**

· Wilson, W.J., and E.M. Blair 1926 A combination of Bismuth and Sodium Sulfite affording an enrichment and selective medium for the typhoid-paratyphoid groups of bacteria. J. Pathol. Bactend 29:310.

**Storage**

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).