

Specification

General purpose solid culture medium according to ISO 21528 & 6579 standards.

Formula * in g/L

Peptone.....	5.00
Meat extract.....	3.00
Sodium chloride.....	5.00
Agar.....	15.00

Final pH 7.0 ±0,2 at 25 °C

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

Directions

Suspend 28 g of powder in 1 L of distilled water and bring to the boil. Dispense into suitable containers and sterilize in the autoclave at 121°C for 15 minutes.

Description

By the addition of sodium chloride the present formulation is a modification of the classical formulation of APHA and other ISO standards. The inclusion of sodium chloride gives an osmotic pressure more appropriate for bacterial growth.

Quality control

Incubation temperature: 37 °C ± 1

Incubation time: 24 ± 2 h

Inoculum: Practical range 100 ± 20 CFU. Min. 50 CFU (Productivity) according to ISO 11133:2014/Amd 1:2018 . Spiral Plate Method.

Microorganism	Growth	Remarks
<i>Bacillus subtilis</i> ATCC® 6633	Productivity > 0.70	30 ± 1°C / 21 ± 3h
<i>Salmonella enterica</i> ATCC® 13076	Productivity > 0.70	-
<i>Salmonella typhimurium</i> ATCC® 14028	Productivity > 0.70	-
<i>Yersinia enterocolitica</i> ATCC® 9610	Productivity > 0.70	30 ± 1°C / 21 ± 3h
<i>E. coli</i> ATCC® 8739	Productivity > 0.70	
<i>Escherichia coli</i> ATCC® 25922	Productivity > 0.70	

References

- ISO Standard 6579-1 (2017) Microbiology of food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella - Part 1 : Detection of Salmonella spp.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 21528-1:2017 Standard. Microbiology of food chain - Horizontal methods for the detection and enumeration of Enterobacteriaceae - Part 1: Detection of Enterobacteriaceae.
- ISO. Norma 21528-2 (2017) Microbiology of the food chain – Horizontal methods for the detection and enumeration of Enterobacteriaceae. – Part 2: Colony–count method.

Storage

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