

Specification

Solid culture medium for general purpose use, according to ISO standards and APHA.

Formula * in g/L

Peptone 5.00
 Meat extract 3.00
 Agar 15.00

Final pH 7.0 ±0.2 at 25 °C

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

Directions

Suspend 23 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

Nutrient Agar APHA is a classical meat infusion medium. It is a very simple medium that can be used as a routine culture medium or as nutrient base to which growth factors can be added if necessary. This medium with the pH adjusted to 8.0 ±0.2 is recommended for use as Assay Medium H in the Antibiotic Assay Chapter of the European Pharmacopoeia 6.0.

Technique

Inoculate according to final purpose, samples and validated methods (Pharmacopoeias and ISO).

Quality control

Incubation temperature: 30 °C ± 1.0

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>Escherichia coli</i> ATCC® 8739	Productivity > 0.70	-
<i>Salmonella enteritidis</i> ATCC® 13076	Productivity > 0.70	-
<i>Staphylococcus aureus</i> ATCC® 25923	Productivity > 0.70	-
<i>Salmonella typhimurium</i> ATCC® 14028	Productivity > 0.70	-
<i>Bacillus subtilis</i> ATCC® 6633	Productivity > 0.70	-
<i>Yersinia enterocolitica</i> ATCC® 9610	Productivity > 0.70	-

References

- . ATLAS, R.M., L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press, Inc. London
- . EUROPEAN PHARMACOPOEIA 6.3 (2009) § 2.7.2 Microbiological Assay of Antibiotics (pg 3940). EDQM. Council of Europe. Strasbourg.
- . 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 6785 Standard (2001). Milk and milk products.– Detection of Salmonella spp.
- . ISO 10273 Standard (1994) General guidance for the detection of presumptive pathogenic *Yersinia enterocolitica*.
- . ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

Storage

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