

Reference: 4229 Technical Data Sheet

Product: LYSINE DECARBOXYLASE BROTH

Specification

Liquid medium to differentiate enteric bacteria using L-Lysine decarboxylation assays according to ISO and IDF standards.

Presentation

20 Tubes Packaging Details

Tube 16 x 113 mm

16x113 mm glass tubes, ink labelled, metal-Non

with: 7 ± 0,2 ml

Packaging Details

16x113 mm glass tubes, ink labelled, metal-Non

injectable cap. - 20 tubes per box

Composition

Com	position	(a/l	١
COIII	POSITION	19/1	,

Yeast extract	3.000
Dextrose	1.000
Bromcresol purple	0.015
L-Lysine	5.000

Description / Technique

Description:

The capacity to decarboxylate some amino acids has been widely employed in the classification of Enterobacteriaceae. Taylor's formulation, including lysine, has been recently included in several standards for the identification of Salmonella. This modification shows an improved performance, in comparison to Falkow's formulation.

Technique:

It is advisable to use a vaseline seal to avoid spontaneous oxidation. The use of glucose in anaerobic conditions produces an acidification of the medium; causing the indicator to turn yellow.

If the organism can decarboxylase the amino acid alkaline bioproducts will be formed turning the medium grey and finally violet. The observations of these biochemical tests are performed after an incubation period of 24 hours at 37°C.

Quality control

Physical/Chemical control

Color : Violet pH: 6.1 ± 0.2 at 25° C

Microbiological control

Inoculum 100 - 1.000 CFU

Aerobiosis. Incubation at 37 °C±1, reading after 24-48±2h

Microorganism Growth

Proteus mirabilis ATCC® 12453 Good - Yellow Salmonella typhimurium ATCC® 14028, WDCM 00031 Good - Violet

Escherichia coli ATCC® 25922, WDCM 00013 Good- variable reaction

Sterility Control

Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH

Check at 7 days after incubation in same conditions

Bibliography

- · DOWNES, F.P. & K. ITO (2001) Compendium of methods for the microbiological examination of foods. APHA. Washington.
- · FIL-IDF Standard 93 (2001) Detection of Salmonella spp.
- · 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 21567 Standard (2004) Food and feeding stuffs Horizontal method for the detection of Shigella spp.
- · ISO 22964 (2017) Microbiology of the food chain.- Horizontal method for the detection of Cronobacter spp
- · TAYLOR, W. I. (1961) Isolation of Salmonellae from Food Supplies. V. Determination of the Method of Choice for Enumeration of Salmonella. Appl. Microbiol. 9:487-490.

Page 1 / 1 Revision date: 24/07/18