

Specification

Diluent and non-selective pre-enrichment broth for the homogenization of food samples, formulated according to ISO 6579, ISO 6785, ISO 6887 and ISO 8261.

Presentation

	Packaging Details	Shelf Life	Storage
20 Tubes Tube 16 x 113 mm with: 9 ± 0.2 ml	1 box with 20 tubes, 16x113 mm glass tubes, ink labelled and metallic cap.	12 months	2-25 °C

Composition

Composition (g/l):	
Casein peptone.....	10,0
Sodium chloride.....	5,0
Disodium phosphate (anhydrous)	3,5 ^(*)
Potassium dihydrogen phosphate.....	1,5

(*1) Equivalent to 9,0 g of disodium hydrogen phosphate dodecahydrate.

Description /Technique

Description:

This formulation of Buffered Peptone Water has the advantages of the two classical diluents used for food samples: it has the property of revitalization of the peptone water and the pH change absorbing capacity of the phosphate buffer. The composition of this diluent is made according to the specification of the ISO Standard 6579 for the detection of Salmonella in foods and other ISO Standards (6785, 6887 and 8261).

Technique:

Inoculate according to final purpose, samples and validated methods.

Quality control

Physical/Chemical control

Color : yellow pH: 7.0 ± 0.2 at 25°C

Microbiological control

Prepare tubes / Inoculate ≤10³ CFU/ tube (productivity)/ subculture after holding at 20-25oC for 45 min. to 1 h.

Microbiological control according to ISO 11133:2014/A1:2018.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 37 °C ± 1, reading after 18 ± 2h

Microorganism

Stph. aureus ATCC® 25923, WDCM 00034
Escherichia coli ATCC® 25922, WDCM 00013
Escherichia coli ATCC® 8739, WDCM 00012
Salmonella typhimurium ATCC® 14028, WDCM 00031
Salmonella enterica ATCC® 13076, WDCM 00030
L. monocytogenes ATCC® 13932, WDCM 00021
L. monocytogenes ATCC® 35152, WDCM 00109
Escherichia coli ATCC® 8739, WDCM 00012

Growth

Good. Recovery ±30% T0 (original enumeration)
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 Good
 Good
 Good
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 Good. Recovery ±30% T0 (original enumeration)

Sterility control

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.
 Check at 7 days after incubation in same conditions.

Bibliography

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