LICKSON®

CE

TECHNICAL SHEET

LISTERIA OXFORD AGAR WITH SWAB

(UNI EN ISO 11290)

Screening device consisting of a swab and a test tube containing Listeria Oxford Agar.

DESCRIPTION

Screening device consisting of a swab and a test tube containing Listeria Oxford Agar, that is a selective medium able to change color (from bluish-brown/greenish-brown to brown-black) in response to the presence of Listeria monocytogenes in food samples.

PRINCIPLE

Tryptone, meat extract and peptone are a source of amino acids, nitrogen, minerals, vitamins, carbon and other factors which increase the growth of microorganisms. Yeast extract provides amino acids and vitamins of group B. Sodium chloride maintains the osmotic balance of the medium. Starch acts as a protective substance against toxic molecules which can be present in the medium. Hydrolysis of starch during sterilization supplies a little amount of glucose which represents a source of energy. Agar is the solidifying agent. The presence of esculin and ammonium ferric citrate allows a presumptive identification of the black colonies. In fact the Listeria species hydrolize esculine to glucose and esculetin which reacts with the ferric ions in the medium. The selective agents (Cefotetan, Phosphomycin, Colistin, Cycloheximide, Acriflavine) inhibit the contaminating flora.

Listeria Oxford Agar:

COMPOSITION	g/L
Tryptone	10.0
Yeast Extract	5.0
Meat Extract	5.0
Peptone	3.0
Sodium Chloride	5.0
Starch	1.0
Esculine hydrate	1.0
Ammonium Ferric Citrate	0.5
Lithium Chloride	15.0
Agar	10.0
Cycloheximide	400 mg
Colistina solfato	20 mg
Cefotetan	2 mg
Fosfomicina	10 mg
Acriflavina	5 mg

Final pH 7,3 ± 0,2 at 25°C

WARNING AND PRECAUTIONS

Observe the precautions normally taken when handling laboratory reagents.
Prepared Medium: The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous.
Safety Data Sheet is available on request for professional users.
Disposal of waste must be carried out according to national and local regulations in force.

STORAGE AND STABILITY

LISTERIA OXFORD AGAR WITH SWAB 10-25°C

LISTERIA OXFORD AGAR WITH SWAB is stable until the expiration date indicated on the label under the recommended storage conditions.

INSTRUCTIONS FOR USE

- Listeria Oxford Agar with Swab is intended to surface sampling in the food sector.
- Do not deviate from the intended use. Do not use the product if it is expired or the package is opened/damaged. Sterility guaranteed if unopened.
- Use the device following aseptic procedures. Single-use device; do not reuse. Reusing the device could contaminate the sample.
- Keep the device away from heat sources.
- Store in a cool, dry place at a temperature between +10°C and +25°C. Do not freeze.
- After use, the device may contain infectious microorganisms. Use appropriate PPE and dispose of the test tube and swab according to current regulations for waste.

HOW TO USE

1) Remove the swab and tube containing Listeria Oxford Agar from the box.
2) Open the blister pack and aseptically remove the swab from the pack.
3) Streak the swab on a surface horizontally and vertically. A Sampling Template 10x10 (REF. **4500/SG/CS**) can be used to delimit and sample an area of 100 cm^2.
4) Unscrew the cap and insert the swab into the test tube.
5) Break the swab in the test tube. Discard the broken part of the shaft in accordance with current regulations for waste.
6) Firmly tighten the cap onto the test tube and record date and the sampling point.
7) Incubate aerobically at 35°C for 24 and 48 hours.
8) Generally, after incubation, growth of Listeria monocytogenes, is indicated by a colour change of the medium to brown-black.
9) Confirm with further microbiological tests.

QUALITY CONTROL: Listeria Oxford Agar

Appearance: bluish-brown/greenish-brown agar.

In accordance with the predefined Company Quality System, each lot of **LISTERIA OXFORD AGAR WITH SWAB** is tested against predetermined specifications to ensure consistent product quality.

Typical response after incubation at 35°C for 24 and 48 hours, in aerobiosis:

MICROORGANISM	GROWTH
Listeria monocytogenes 4b ATCC 13932	Brown-gray colonies Black center Black halo
L. monocytogenes ATCC 1/2a ATCC 35152	Brown-gray colonies Black center Black halo
L. innocua ATCC 33090	Brown-gray colonies Black center Black halo
Enterococcus faecalis ATCC 19433	Inhibited
Escherichia coli ATCC 25922	Inhibited

(-) **(+)**

PRESENTATION	Packaging	REF.
LISTERIA OXFORD AGAR WITH SWAB	**100 pcs**	**63233/SWAB**

The kit includes:
n. 100 Tubes (12x80 mm, with internal shaped conical bottom and screw cap, sterile) containing 3,5 mL of Listeria Oxford Agar;
n. 100 Rayon Swab (sterile, in single blister);
n. 100 Labels.

CND: W0104010206

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Horizontal method for the detection and enumeration of Listeria monocytogene. s Part 1: Detection method.

SYMBOLS

 **Read the instructions**

 **Biological hazard**

 **CE Mark (product complies with the requirements of Regulation (EU) 746/2017)**

 **Temperature limitation**

 **Use by**

IVD **For in vitro diagnostic use**

 **Manufacturer**