

BacterLab Division



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## **ENVIRONMENTAL SAMPLING SWABS**

### **SwabCollect™ Half Fraser Broth, 5 mL**

**Microbial Sampling Tool for surface sampling, using a swab and a plastic tube containing Half Fraser Broth to recover and protect microorganisms, during transport and analysis.**

**Code: 4108027**



## 1. INTENDED USE

**SwabCollect™ Half Fraser Broth, 5 mL** is designed for microbiological sampling from surfaces and hard-to-reach areas in food processing, healthcare, and pharmaceutical environments. The product aids in collecting samples from narrow or difficult-to-reach areas, ensuring that microorganisms are protected throughout the transport and analysis process. **Half Fraser Broth** is a primary enrichment medium for the detection of *Listeria* spp. in environmental and processing area samples.

## 2. PRINCIPLES

**SwabCollect™ Half Fraser Broth, 5 mL** combines a sterile swab with a plastic tube containing 5 mL of **Half Fraser Broth** to collect microorganisms from surfaces. **Half Fraser Broth** is a semi-selective enrichment medium developed to recover and promote the growth of stressed, injured, or low-level *Listeria* cells that may remain after surface cleaning or disinfection. The medium supports the recovery of *Listeria* while inhibiting competing background flora, thereby enhancing the sensitivity and reliability of pathogen detection in environmental monitoring programs

## 3. TYPICAL COMPOSITION

### 3.1. Tools

- Sterile swab
- Sterile plastic tube, size 16 x 100 mm

### 3.2. Medium

- Volume of medium in the plastic tube: 5 mL
- Components of the medium:

*For 1 liter of medium*

Peptone	20,0 g
Yeast extract	5,0 g
Glucose	20,0 g
Tween 80	1,08 g
Dipotassium phosphate	2,0 g
Sodium	5,0 g
Ammonium citrate	2,0 g
Magnesium sulfate	0,2 g
Manganese sulfate	0,05g

*pH of the ready-to-use medium at 25°C: 7,2 ± 0,2*

## 4. INSTRUCTIONS FOR USE

- Inspect the **SwabCollect™** product to ensure it is not damaged or contaminated during storage.

- Write the sample information on the pre-labeled sticker on the plastic tube containing the solution.
- Carefully open the cap of the solution tube to avoid contaminating the internal environment.
- Immerse the swab tip into the solution in the tube, ensuring the swab tip is completely moistened with the solution.
- Collect the sample by gently rubbing the swab on the area to be sampled. Be careful not to touch the swab tip with your hands.
- Insert the swab back into the tube containing the solution.
- Break off the excess swab tip to fit the tube.
- Close the plastic tube tightly to protect the sample and prevent contamination during transport.
- Transport the sample immediately to the laboratory to ensure the stability of the microorganisms, following sample storage guidelines..

## 5. QUALITY CONTROL

- **SwabCollect™ Half Fraser Broth, 5 mL** is produced in a closed environment, adhering to strict hygiene regulations. The plastic tube and swab are sterilized using gamma irradiation, ensuring no microorganisms affect the quality of the sample.
- **BacterLab** ensures the quality of each product batch of the medium by testing with ATCC reference strains.

Reference strains	Incubation conditions	Expected results
<i>L. monocytogenes</i> ATCC 13932	35 – 37°C for 18 – 24 hours	Good growth
<i>E. coli</i> ATCC 25922		Good growth
<i>E. faecalis</i> ATCC 19433		No changed

## 6. STORAGE AND TRANSPORT CONDITIONS

- Storage: 4 – 25°C.
- Transportation: Ambient temperature.

## 7. PACKAGING

- Packaging: 50 set/ box or customer request.

## 8. SHELF LIFE

- Expiration Date: 18 months from the manufacturing date.

## 9. BIBLIOGRAPHY

- Solabia Biokar Diagnostics. (n.d.). *Half Fraser Broth*. Retrieved from [https://www.solabia.com/biokar-diagnostics/product/half-fraser-broth/?documentation=5321&\\_wpnonce=f35ff5b947](https://www.solabia.com/biokar-diagnostics/product/half-fraser-broth/?documentation=5321&_wpnonce=f35ff5b947)