

## TECHNICAL DATA SHEET

# CONFIRM' *L. MONO* BROTH

### CONFIRMATION OF *LISTERIA MONOCYTOGENES*

#### 1 INTENDED USE

The CONFIRM' *L. mono* broth® is a liquid media destined for the confirmation of the genus & species *Listeria monocytogenes*, isolated from a single characteristic colony from COMPASS® *Listeria* Agar, within the context of the alternative methods for the detection and enumeration of *Listeria monocytogenes* certified NF VALIDATION.



#### 2 PRINCIPLES

The COMPASS® *Listeria* method allows the detection of *Listeria monocytogenes* by the formation of blue to blue-green colonies surrounded by an opaque halo. Certain strains of *Listeria ivanovii* can present the same characteristics, but usually of a much smaller size. These two species must be differentiated by confirmation tests.

The CONFIRM' *L. mono* broth® is based on the correlation between the pathogenicity and the fermentation of rhamnose leading to an acidification with bacteria belonging to the genus *Listeria* as demonstrated by Groves & Welshimer in 1977.

CONFIRM' *L. mono* broth® therefore permits a distinction between *Listeria monocytogenes* (rhamnose positive) from *Listeria ivanovii* (rhamnose negative).

#### 3 TYPICAL COMPOSITION

The composition can be adjusted in order to obtain optimal performance.

For 1 liter of media :

- Special mixture of peptones .....	7,00 g
- Sodium chloride .....	5,00 g
- Rhamnose .....	5,00 g
- Colored indicator .....	0,05 g

pH of the ready-to-use at 25°C : 6,6 ± 0,2.

#### 4 INSTRUCTIONS FOR USE

- Sample a characteristic colony (blue, surrounded by an opaque halo) from COMPASS® *Listeria* Agar.
- Inoculate into a tube of CONFIRM' *L. mono* broth.
- Incubate at 37 ± 1 °C for 6 to 24 hours.

✓ **Inoculation :**  
One characteristic colony

✓ **Incubation :**  
6 to 24h at 37 ± 1 °C

## 5 RESULTS

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The demonstration of rhamnose fermentation is assured by the color change to yellow of the broth culture, due to the fall in pH.

Any tube turning yellow after the inoculation as described confirms the presence of *Listeria monocytogenes*.

See Annex 1 : PHOTO SUPPORT

### NOTES

A negative result or a brown coloration after 6 hours is considered discordant. The laboratory should proceed with supplementary tests to verify the validity of the results being given, for example by prolonging the incubation for up to 24 hours.

In the event of a doubtful reaction after 24 hours of incubation, it is recommended to initiate another type of confirmation test (biochemical gallery, for example).

## 6 QUALITY CONTROL

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**Prepared media :** clear, violet liquid.

Typical cultural response after 6 hours of incubation at  $37 \pm 1^\circ\text{C}$  :

Microorganisms	Broth coloration
<i>Listeria monocytogenes</i>	WDCM 00020
<i>Listeria monocytogenes</i>	WDCM 00021
<i>Listeria ivanovii</i>	WDCM 00018
<i>Staphylococcus aureus</i>	WDCM 00034
<i>Bacillus cereus</i>	WDCM 00001
	Yellow
	Yellow
	Violet
	Violet
	Violet

## 7 STORAGE / SHELF LIFE

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**Media in vials :** 2-8 °C, shielded from light.

The expiration date is indicated on the label.

## 8 PACKAGING

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18 vials x 1 mL ..... BM16208

## 9 ADDITIONAL INFORMATION

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**CONFIRM' L. mono Agar®**, **CONFIRM' L. mono broth®** & **COMPASS®** are trademarks of SOLABIA S.A.S.

The information provided on the labels take precedence over the formulations or instructions described in this document and are susceptible to modification at any time, without warning.

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## **ANNEX 1 : PHOTO SUPPORT**

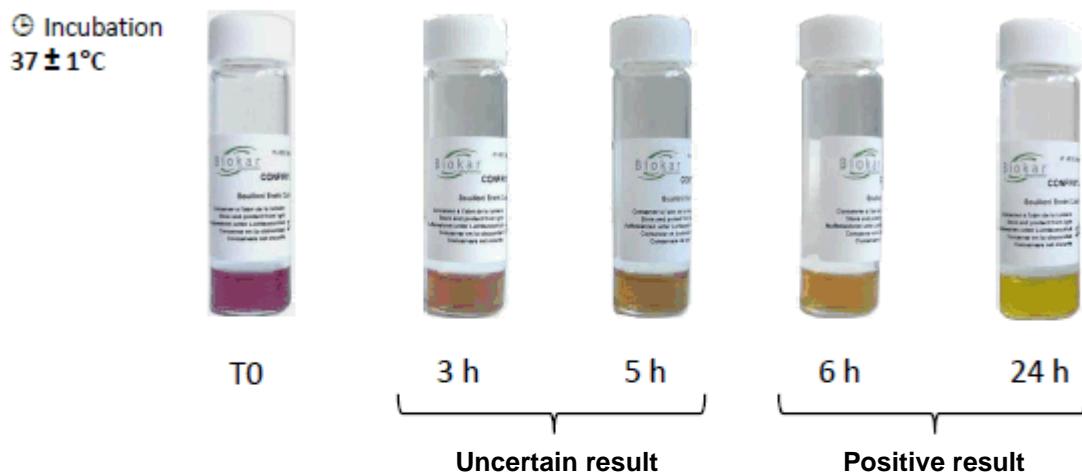
**CONFIRM *L. mono* broth®**

## Confirmation of *Listeria monocytogenes*

## **Results :**

Reaction obtained after 24 hours of incubation at 37 °C.

### *Listeria monocytogenes*



### *Listeria ivanovii*

