

# CONFIRM' SALMONELLA

## CONFIRMATION OF SALMONELLA

### 1 INTENDED USE

**CONFIRM' Salmonella** is a latex agglutination test that allows for the confirmation of presumed positive colonies of *Salmonella*, after purification.

**CONFIRM' Salmonella** is also used as a means of confirmation in the context of the rapid, alternative method of *Salmonella* detection (**IRIS Salmonella**®), without a purification step, directly from a characteristic magenta colony isolated on **IRIS media**.

The **IRIS Salmonella**® method of *Salmonella* detection is certified by AFNOR Certification, under Attestation N° BKR 23/07 – 10/11.



BKR 23/07-10/11  
METHODES ALTERNATIVES D'ANALYSE  
POUR L'AGROALIMENTAIRE  
Certifié par AFNOR Certification <http://nf-validation.afnor.org/>

### 2 PRINCIPLES

Specific polyvalent antiserums to flagellar and somatic antigens of *Salmonella* have been prepared. The purified antibodies have been fixed to latex particles. In the presence of *Salmonella*, the latex particles will agglutinate rapidly to form aggregates visible to the naked eye.

The negative control solution is a preparation of physiological water, with added sodium azide.

The positive control solution is an inactivated preparation of *Salmonella* antigens. Sodium azide is added as a conservation agent.

The kit allows the revelation of *Salmonella* belonging to the groups O:2 to O:52.

### 3 INSTRUCTIONS FOR USE

Allow the reagents to reach room temperature before use.

#### Auto-agglutination test

- Use a fresh culture of the strain to be tested (after the purification step or directly following incubation on **IRIS Salmonella**® Agar).
- Place a drop of solution **R3** (Negative control) on the circle.
- Sample a colony using a small baton and mix with the drop in order to obtain a thick suspension that takes up the entire circle.
- Gently rock the slide with a slight wrist movement for 2 minutes.
- No agglutination should be observed. If the contrary occurs, it has resulted from auto-agglutination of the strain and the test cannot be validated.

#### Test

- Shake the flask of the reagent **R1** (Latex test) and place a drop on the second circle.
- Sample a colony with a small baton and mix with the drop over the entire surface of the circle.
- Gently rock the slide with a slight wrist movement for 2 minutes.
- Observe for the presence of agglutination. Colonies belonging to the genus *Salmonella* will cause a visible agglutination within 2 minutes.

See ANNEX 1 : PHOTO SUPPORT.

The following controls should be made regularly in order to verify the proper functioning of the latex reagents:

**Negative Control :**

- Add a drop of reagent **R1** (Latex test) to a drop of solution **R3** (Negative control) to the same circle of the slide.
- Mix the liquids together and spread around the entire surface of the circle with the help of a sterile baton.
- Gently rock the slide with a wrist movement for 2 minutes.
- No agglutination should be observed.
- In agglutination does occur, the kit is most likely contaminated and should not be used.

**Positive Control :**

- In another circle, add a drop of solution **R2** (Positive Control).
- Add a drop of reagent **R1** (Latex test) and mix over the entire surface of the circle with a sterile baton.
- Gently rock the slide with a wrist movement for 2 minutes.
- Agglutination should be visible in less than 2 minutes.
- If this is not the case, do not use the kit.

**4 QUALITY CONTROL**

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**Salmonella latex Reagent R1:** white, milky suspension.  
**Positive Control Solution R2:** white, opalescent solution.  
**Negative Control Solution R3:** clear, limpid solution.

Result of agglutination tests:

| Microorganisms                |            | Agglutination |
|-------------------------------|------------|---------------|
| <i>Salmonella</i> Typhimurium | WDCM 00031 | Positive      |
| <i>Salmonella</i> Enteritidis | WDCM 00030 | Positive      |
| Positive control (R2)         |            | Positive      |
| <i>Escherichia coli</i>       | WDCM 00013 | Negative      |
| Negative control (R3)         |            | Negative      |

**5 STORAGE / SHELF LIFE**

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Store between 2 - 8 °C, shielded from light.  
The expiration dates are indicated on the labels.

**6 PACKAGING**

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50 test kit ..... BT01108

Kit composition: Reagent R1 (Latex test) + Solution R2 (Positive Control) + Solution R3 (Negative Control) + disposable agglutination slides + disposable mixing batons.

**7 BIBLIOGRAPHY**

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K L McGowan, M T Rubenstein, Am. J. Clin. Patho (1989), Volume: 92, Issue: 5, Pages: 679-682: Use of a rapid latex agglutination test to detect *Salmonella* and *Shigella* antigens from gram-negative enrichment broth.

F. Javier Gellat et al: Pure & Appl Chem., (1991), Volume 63, n°8, Pages 1131-1134 : Latex agglutination procedures in immunodiagnosis.

G.R Bengé, Eur. J. Clin. Microbiol. Infect. Dis., (1989), Volume 8, Pages 294-298: Detection of *Salmonella* spp. in faeces by latex agglutination in enrichment broth.

## 8 ADDITIONAL INFORMATION

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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

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### CONFIRM' *Salmonella*

Confirmation test for *Salmonella*.

#### Methodology :

Sample a test colony from **IRIS *Salmonella*® Agar** and mix with a drop of reagent (R1).

