

Analytical Services – Microbiology

Salmonella spp

Salmonella spp detection with MSRV accredited method

Introduction

In order to perform an efficient risk assessment of the various production stages and to minimize the risk of releasing contaminated products which could lead to sanitary and economic implications, it is necessary to apply more reliable, accurate and rapid analytical protocols.

To meet these needs Mériéux NutriSciences offers a validated method according to ISO 16140 for qualitative detection of *Salmonella spp* since 2005 within the laboratory network. All the European laboratories that have implemented the MSRV method, have obtained the accreditation and regularly perform the method according to Reg. CE 2073/2005.

The quality controls of our analytical processes allow us to share and compare at any time our performances within our network of 60 laboratories using the same method on the same matrices, standardizing the performances and reaching excellence levels of service. In this way, laboratory and quality managers can verify the absence of irregular steps and factors in the analytical process, in order to ensure the reliability of the final result and, if necessary, quickly intervene in case of anomalies.

Salmonella spp method (qualitative)

The method for the detection of *Salmonella Spp* is based on a specific selective medium that allows to detect the presence of motile microorganism belonging to the *Salmonella* family. The MSRV method is very specific and sensitive because it allows *Salmonella spp* to migrate into the semi-solid medium thus forming an opaque halo. Thanks to this characteristic, we can confirm a negative result after only 48 hours, reducing considerably the turn around time compared to classic protocols.

Field of application and turn around time

The method for *Salmonella spp* detection is accredited by the laboratory in Resana for food intended for human consumption, animal feed, working environment and surfaces matrices (swab and sponges). In a short time it will be accredited also by the laboratories in Prato and Bergamo.

For more information please contact your Customer Service representative.

Field of application	Analyte	Detection	Technique	Alternative method	Equivalent to
Food intended for human consumption and animal feed	<i>Salmonella spp</i> (qualitative)	Presence-absence/"x" g or on "x" ml of sample*	Isolation on plate after enrichment	MRSV	ISO 6579
Working environment and Surfaces	<i>Salmonella spp</i> (qualitative)	Presence-absence/"x" cm ² or "swab/spunges"***	Isolation on plate after enrichment	MRSV	ISO 6579

*(the validation has been performed on product quantity less than 25g) ** (with "x" at least 100 cm²)



Field of application

Accredited matrices:

- ▷ Food intended for human consumption
- ▷ Work environment and Surfaces