

Technical Data Sheet

MSRV Selective Supplement

Ordering number: 1.09874.0010

The selective supplement contains novobiocin sodium salt in lyophilized form.

According to EN ISO 6579/Amd 1 and EN ISO FDIS 6579-1, MSRV medium contains 10 mg/l novobiocin whilst the original composition of MSRV medium contains 20 mg/l (de Smedt et al. 1986).

Mode of Action

Novobiocin suppresses growth and motility of the majority of competitor flora. It also prevents the swarming of *Proteus spp.*

Studies have shown larger migration zones on MSRV medium with a lower concentration of novobiocin and the (negative) influence of novobiocin on bacterial motility (Veenman et al. 2007).

Typical Composition*

	Gram per vial	[g/l] final medium
Novobiocin Sodium Salt	0.01	0.01

* Composition according EN ISO 6579

Preparation

Dissolve the lyophilized supplement by adding 1 ml sterile distilled water. Mix gently until dissolved.

Add the supplement to MSRV medium cooled to 45-50 °C. Mix gently and pour to plates.

For working according to EN ISO 6579 use 1 vial of the MSRV Selective Supplement solution per 1000 ml MSRV (Modified Semi-solid RAPPAPORT-VASSILIADIS) Medium (Base) acc. ISO 6579 (article number 1.09878.0500).

Storage

Usable up to the expiry date when stored dry and tightly closed at +2 °C to +8 °C.

Quality Control

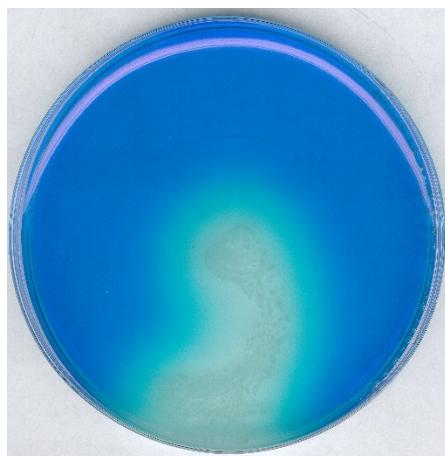
MSRV Selective Supplement is tested in MSRV (Modified Semi-Solid RAPPAPORT-VASSILIADIS) Medium (Base) acc. ISO 6579 with 10 mg/l novobiocin sodium salt in accordance with EN ISO 6579/Amd 1:2007 and EN ISO/FDIS 6579-1:2015.

MSRV Selective Supplement is tested in MSRV medium with 10 mg/l and 20 mg/l novobiocin sodium salt in accordance with the current version of EN ISO 11133.

Both performance tests are indicated on the product's Certificate of Analysis.

Function	Control strains	Incubation	Method of control	Expected results
Productivity	<i>Salmonella</i> Typhimurium ATCC® 14028	2x 21-27 h at 40.5-42.5 °C	Qualitative	Grey-white, turbid zone extending out from inoculated drop. After 24-48 h, the turbid zone will be (almost) fully migrated over the plate.
	<i>Salmonella</i> Enteritidis ATCC® 13076			
Selectivity	<i>Escherichia coli</i> ATCC® 8739	2x 21-27 h at 40.5-42.5 °C	Qualitative	Possible growth at the place of the inoculated drop without a turbid zone.
	<i>Escherichia coli</i> ATCC® 25922			
	<i>Enterococcus faecalis</i> ATCC® 19433			
	<i>Enterococcus faecalis</i> ATCC® 29212			
	<i>Citrobacter freundii</i> ATCC® 8090			No growth

Please refer to the actual batch related Certificate of Analysis.



Salmonella Typhimurium ATCC® 14028



Citrobacter freundii ATCC® 8090

Literature

De Smedt, J.M., Bolderdijk, R.F., Rappold, H. and Lautenschlaeger, D. (1986): Rapid *Salmonella* detection in foods by motility enrichment on a modified semi-solid Rappaport-Vassiliadis Medium. *J. Food Prot.* **49**: 510-514.

ISO International Standardisation Organisation. Microbiology of food and animal feeding stuffs - Horizontal method for the detection of *Salmonella* spp. EN ISO 6579:2002.

ISO International Standardisation Organisation. Microbiology of food and animal feeding stuffs - Horizontal method for the detection of *Salmonella* spp. -- Amendment 1: Annex D: Detection of *Salmonella* spp. in animal faeces and in environmental samples from the primary production stage. EN ISO 6579:2002/Amd 1:2007.

ISO International Standardisation Organisation. Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of *Salmonella* - Part 1: Horizontal method for the detection of *Salmonella* spp. EN ISO/FDIS 6579-1:2015.

ISO International Standardisation Organisation. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media. EN ISO 11133:2014.

Veenman, C., Korver, H. and Mooijman, K.A. (2007): Improvements in the method for detection of *Salmonella* spp. In animal faeces. National Institute for Public Health and the Environment, Bilthoven, the Netherlands. RIVM report 330300 010. <http://www.rivm.nl/bibliotheek/rapporten/330300010.pdf>.

Ordering Information

Product	Cat. No.	Pack size
MSRV Selective Supplement	1.09874.0010	10 x 1 vial
MSRV (Modified Semi-Solid RAPPAPORT-VASSILIADIS) Medium (Base) acc. ISO 6579	1.09878.0500	500 g

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