



HEALTH PRODUCTS AND FOOD BRANCH

OTTAWA

SUPPLEMENT TO ALL METHODS THAT DETECT *SALMONELLA*

Microbiological Methods Committee
Microbiology Evaluation Division
Bureau of Microbial Hazards, Food Directorate,
Health Products and Food Branch, Health Canada
Postal Locator: 2204A1
Ottawa, Ontario K1A 0L2

Don_Warburton@hc-sc.gc.ca

1. APPLICATION

The following information is offered as a supplement to all methods that detect *Salmonella* in food, food ingredients and environmental samples and should be used with these methods. The purpose of this supplement is to provide additional information (such as source(s) of materials, critical steps, confirmation steps, or helpful hints etc.).

5. MATERIALS AND SPECIAL EQUIPMENT

The medium listed below (item 20) is commercially available and is to be prepared and sterilized according to the manufacturer's instructions. See also Appendix G of Volume 2 in this Compendium.

- 19) Incubators or water baths capable of maintaining 35°C (Non-selective enrichment broths, plates and SC broth) and 42.5°C (TBG and RVS broths)
- 20) RVS broth (Oxoid 866)

NOTE: RVS broth is listed as RV broth in Appendix G.

6. PROCEDURE

NOTE: Due to safety and environmental issues, SC broth can be replaced with RVS broth in all methods used for the detection of *Salmonella* in foods, food ingredients and environmental samples.

SC broth must be used (using the conditions described below) when analysing guar gum and when the presence of *Salmonella* Typhi is suspected, such as in outbreaks or for imports from tropical countries where *S. Typhi* is prevalent. In general, it is recommended that SC be used in the investigation of food borne outbreaks.

6.3 Selective Enrichment

6.3.1 If substituting RVS for SC broth, transfer 0.1 mL and 1.0 mL of the preenrichment culture into 9 mL of RVS and TBG broths, respectively. **If using SC follow MFHPB-20.**

6.3.2 Incubate RVS and TBG broths for 24 ± 2 h at 42.5°C.

6.4 Selective Plating

6.4.1 Follow MFHPB-20 for TBG and RVS broths. **If using SC broth, streaking must be done using sterile disposable loops and in a fume hood or a biohazard hood.**

8. PREPARATION OF MEDIA

8.1 RVS Broth

Use Oxoid (866) or see Appendix G.

9. DISPOSAL OF SELENITE CYSTINE (SC) BROTH AND PRODUCTS CONTAINING SC

NOTE: All products containing SC **MUST** be disposed of through a waste management facility. This includes **ALL** dry product and reconstituted product. Any product that has been contaminated must be autoclaved to sterilization (using a properly ventilated system) prior to disposal.

UNDER NO CIRCUMSTANCES IS ANY SC PRODUCT TO BE DISPOSED OF THROUGH THE DRAINAGE OR SEWER SYSTEM.