

Iodine Solution

Supplement for detection of *Salmonella* spp.

DESCRIPTION

Iodine Solution is used for the preparation of Tetrathionate Broth Base (ref. 610183, 620183). The complete medium is used for the selective enrichment of *Salmonella* spp from food and faecal specimens.

KIT CONTENTS

Each kit contains:

- 10 ml vials of Iodine Solution

PRINCIPLE OF THE METHOD

Tetrathionate is formed in the medium upon addition of the Iodine Solution. Contaminant flora, in particular those organisms which lack the enzyme tetrathionate reductase, will result inhibited enhancing the recovery of *Salmonella* species.

COMPOSITION

| | Content per vial | Content per liter of medium |
|------------------|------------------|-----------------------------|
| Iodine | 3.0 g | 6.0 g |
| Potassium Iodide | 2.5 g | 5.0 g |

PROCEDURE FOR USE

- Follow the base media instructions for the preparation of the culture medium. Cool to 45-50°C before addition of the supplement.
- Aseptically add the content of one vial (10 ml) of Iodine Solution to 490 ml of medium. DO NOT REHEAT AFTER ADDING IODINE SOLUTION.
- Mix with care and pour into final containers.

Note: Inoculate the complete medium within 2 hours after addition of the Iodine Solution.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical sheet of the medium being prepared.

QUALITY CONTROL

- Visual inspection: homogenous liquid suspension, dark brown, clear;
- Microbiological control.
Prepare the medium per label directions. Inoculate with the microbial strains indicated below. Incubate at 35 ± 2°C for 18-24 h.

| Control strains | | Growth |
|-------------------------------|-------------|-----------|
| <i>Salmonella</i> Typhimurium | ATCC® 14028 | Good |
| <i>Escherichia coli</i> | ATCC® 25922 | Inhibited |

WARNING AND PRECAUTIONS

Iodine Solution is classifiable as hazardous under current legislation; it is recommended that the Safety Data Sheet be consulted on its use. The product is intended for *in vitro* diagnostic use and must be used by properly trained operators.

STORAGE AND TRANSPORT CONDITIONS

2-8°C away from light, until the expiry date on the label. However, our stability studies have shown that the storage or transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, do not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.

REFERENCES


- Harvey, R.W.S., and T.H. Price (1976) Isolation of salmonellae from sewage-polluted river water using selenite F and Muller Kauffmann tetrathionate. J. Hyg. Camb. 77:333-339
- Kauffman, F. (1935) Weitere erfahrungen mit dem kokombinierten anreicherungsverfahren fur Salmonella bazillen. Ztschr. F. Hyg. 117:26-32.

PRESENTATION

| Product | Ref. | Content |
|-----------------|-------|------------------|
| Iodine Solution | 80409 | 10 x 10 ml vials |
| Iodine Solution | 81009 | 5 x 10 ml vials |

One vial of Supplement is sufficient to prepare 500 ml of medium.

TABLE OF SYMBOLS

| | | | | |
|-----------------------------|---|--|--|--|
| LOT Batch code | IVD In-vitro Medical Diagnostic Use | Manufacturer |  Contains sufficient for <n> tests |  Temperature limitation |
| REF Catalogue number |  Fragile, handle with care |  Use by |  Caution, consult accompanying documents |  Do not reuse |



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