Condalab

**Reference:** 6048 **Technical Data Sheet**

**Product:** **NOVOBIOCIN SELECTIVE SUPPLEMENT**

## Specification

Sterile selective supplement used for the isolation of *E.coli 0157:H7*

## Presentation

| | Packaging Details | Shelf Life | Storage |
|---|---|---|---|
| 10 Freeze dried vials<br>Vial<br>with: 3 ± 0.1 g | 22±0.25 x 55±0.5 mm glass vials, tag labelled, White plastic cap - 10 vials per box. | 49 months | 2-25 ºC |

## Composition

Compositon (g/vial)

Novobiocin.....0.010

**NOTE** : Each vial is sufficient to supplement 500ml of medium Base:
TSB Tryptone Soy Broth or Semisolid Rappaport-Vassiliadis Modified.

Reconstitute the original freeze-dried vial by adding :

Sterile Distilled Water.....6 ml

## Description /Technique

Description:

The Novobiocin is used in different culture media like TSB Tryptone Soy Broth or Semisolid Rappaport-Vassiliadis Modified, in order to isolate *E.coli 0157:H7* and/or *Salmonellas spp.* enhancing the inhibition of Gram-positive microorganism.

Technique:

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.
Reconstitute the vial with a sterile diluent in aseptic conditions and add it to 500ml of medium base cooled to room temperature.
Do not overheat once supplemented.
Pour the complete medium into suitable containers.
Inoculate and incubate according to normatives and specifications.
Presuntive isolation of the required microorganism must be confirmed by further tests.

For *E.coli 0157* enrichment - Use Tryptone Soya broth

Following the instrucions of ISO 16654:2001, the detection of *E.coli 0157:H7* is developed in four consecutive steps:

-Enrichment of the sample in TSB+Novobiocin
-Separation and concentration with immunomagnetic tecniques
-Isolation in two different agars: the first one CT SMAC/MacConkey Sorbitol and a second one freely chosen by the user.
-Confirmation of the presumptive colonies of *E.coli 0157:H7* with biochemical tests.

Reconstitute the vial with sterile distilled water, pre-warmed to aprox. 37 ºC and add to 500 ml of sterilized broth base cooled to room temperature.
Incubate the tubes tightly closed in aerobic atmosphere at 42+/-2 ºC for 24h.
Follow the instructions detailed in the ISO

## Quality control

### Physical/Chemical control

Color : White-Gray pH: at 25ºC

### Microbiological control

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely

Add 1 vial to 500 ml of medium base. DO NOT HEAT once supplemented.

Distribute the complete medium, cooled to 50 ºC, into 10 ml tubes

Incubate according instructions for complete medium indicated in COMPOSITION.

Anaerobiosis. Incubation at 44 ± 1 ºC during 21 ± 3h.

| Microorganism | Growth |
|---|---|
| *E. coli 0157:H7 (non toxg.) ATCC® 700728 WDCM 00014* | Good |
| *Stph. aureus ATCC® 25923, WDCM 00034* | Inhibited |

### Sterility Control

Add 5 ml of the sample to:
100 ml TSB and 100 ml Thioglycollate.
Incubation 48 hours at 30-35 ºC and 48 hours at 20-25 ºC: NO GROWTH.

## Bibliography

ISO 16654:2001 Microbiology of foof and animal feeding stuffs. Horizontal method for the detection of Escherichia coli O157.

De Smedt, J. M. et al. (1991) Int. J. Food Micro. 13 301-308