Condalab

Reference: 6014 **Technical Data Sheet**

Product: **VCAT SUPPLEMENT**

Specification

Sterile selective supplement for the isolation of pathogenic *Neisserias.*

Presentation

	Packaging Details	Shelf Life	Storage
10 Freeze dried vials Vial 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)

Vancomicin..... 0.00100
Colistin sulphate.....0.00375
Trimethoprim.....0.00150
Anphotericin.....0.00150

Reconstitute the original freeze-dried vial
by adding
Sterile Distilled Water.....6 ml

Note : Each vial is sufficient to supplement for 500 ml of medium Base GC + Enrichment Suppl.

Description /Technique

Description:

The *Neisseria spp.* include a lot of commensal bacteria that colonize the mucosal surfaces of many animals.
Between the 11 species that colonize humans, only two are pathogens *N. meningitidis* and *N. gonorrhoeae.*
N. gonorrhoeae is the causative agent of gonorrhoea and is transmitted via sexual contact
Neisseria meningitidis is the responsible for septicemia and meningitis.

In media like Thayer Martin and Chocolate agar *N. gonorrheae and N. meningitidis* produce colourless and translucent colonies.
Antibiotic incorporated in the medium with the inhibitory supplement avoid the growth of almost all the non pathogen micro organisms included in the sample, including the saprophytic species of *Neisseria.*

Technique:

Thayer-Martin Agar:
Effective for the isolation of pathogen neisseria. It is prepared with GC Base Agar, haemoglobin and an inhibitor vial VCAT.
It contains Vancomycin and Colistin to inhibit the oxidase-positive contaminants; Nystatin to prevent the growth of saprophytic fungi and trimethoprim that prevent the Proteus overgrowth.
Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.
Reconstitute the vial with 6 ml sterile diluent in aseptic conditions and add it to 500 ml of melted Agar base cooled to 50ºC.
Do not overheat once suplemented.
Pour the complete medium into Petri dishes and, once solidified on a flat surface, spread the plates either by streaking or by spiral method.
Incubate at 37°C, in a very moist, 10% CO_2 enriched atmosphere for 48h.
(Incubation times longer than those mentioned above or different incubation temperatures may be requied depending on the sample or the specifications).
After incubation, count all the colonies that have appeared onto the surface of the agar.
Presumptive isolation / recovery of *Neisserias spp.* must be confirmed by further microbiological and biochemical tests.

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 90 mm plates

5-10% CO2 atmosphere. Incubation at 37 ±1 ºC during 48 ± 2 h.

Microorganism	Growth
Neisseria gonorrhoeae ATCC® 19424	Good
Neisseria meningitidis ATCC® 13090	Good
Staphylococcus aureus ATCC® 6538, WDCM 00032	Inhibited

Sterility Control

Add 5ml of the sample to 100 ml of TSB and to 100 ml Thioglycollate.
Incubation 48 hours at 30-35 ºC and 48 hours at 20-25 ºC: NO GROWTH.
Check at 7 days after incubation in same conditions.

Bibliography

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