Condalab

Reference: 6011 **Technical Data Sheet**

Product: **POLYENRICHMENT SUPPLEMENT**

CE IVD

Specification

Growth factors supplement for the isolation of Pathogenic *Neisseria.*

Presentation

	Packaging Details	Shelf Life	Storage
5 Freeze dried vials + 5 solvent vials with: ± 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

Composition (vial 6011S):

L-Glutamine..... 100 mg
Adenine..... 10 mg
ß-NAD..... 2.5 mg
CoCarboxilase..... 1 mg
Guanine.....0.3 mg
Ferric Nitrate.....0.2 mg
p-Amino benzoic acid..... 0.13 mg
Vitamin B12.....0.10 mg
Thiamine Vit B1.....0.03 mg

NOTE : Each vial is sufficient to supplement
250 ml of GC Base Agar for Neisseria + 250 ml Hemoglobine

Reconstitute the original freeze-dried vial
by adding 1 vial with
Sterile Solvent (6011D) composition:

Steril distiled water..... 9 ml
Glucose.....0,5 mg

Description /Technique

Description:
The Polyenrichment Supplement contains several components that enhance bacterial growth and improve the performance of the media. It is used in media such as the GC Agar Base (Cat. 1106), the Blood Agar Base (Cat. 1108), the Brucella Agar Base (Cat. 1012) or the Columbia Agar Base (Cat. 1104).
GC Agar Base is also employed with the addition of hemoglobin and other supplements for the preparation of Chocolate Agar and Thayer-Martin Medium:
- VCN Supplement (Cat. 6013). Turns de medium into Thayer-Martin Medium.
- VCAT Supplement (Cat. 6014). For the selective isolation of Neisseria.
- VCNT Supplement (Cat. 6026). Also used for the isolation of Neisseria.
- LCAT Supplement (Cat. 6012). For the isolation of pathogenic Neisseria.

The addition of hemoglobin in Chocolate Agar provides hemin (X factor), required by Haemophilus species and promotes the growth of Neisseria species. A chemical enrichment composed of cofactors, vitamins and nicotinamide adenine dinucleotide (NAD) is also required for the growth of Haemophilus and Neisseria spp. If required, antimicrobial supplements are added as inhibitors for an improved selectivity of the medium.

Technique:
Aseptically reconstitute 1 vial 6011S with 1 vial 6011D. Mix gently until complete dissolution and aseptically add to: 250 ml GC Agar Base (Cat. 1106) autoclaved and cooled to 50 ºC + 250 ml of Sterile 2% hemoglobin solution. Mix well and distribute into sterile containers.
If desired, this supplement can also be added to Columbia Agar Base (Cat. 1104), Blood Agar Base (Cat. 1108) or Brucella Agar Base (Cat.1012).

Instructions for use:
Consult the technical data sheet of the medium used.

Quality control

Physical/Chemical control

Color : Pink pH: at 25ºC

Microbiological control

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely
Inoculate 30-300 CFU (productivity) 1.000-10.000 CFU (selectivity)
Microaerophila. Incubation at 37 ± 1 ºC, reading after 24-48 hours

Microorganism	Growth
Neisseria meningitidis ATCC® 13090	Good
Neisseria gonorrhoeae ATCC® 19424	Good

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

Murray, P.R., E.J. Baron, M.A. P faller, F.C. Tenover and R.H. Yolken (ed.) 1995 Manual of Clinical Microbiology, 6th ed. American Society for Microbiology, Washington, D.C