



Reference: 06-144LYO1

Scharlau Microbiology - Technical Data

Product: **GPS - Growth Promotion Supplements**

Specification

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

Presentation

5 Lyophilized/5 Solt.
Vial
with: 3 ± 0.3 g

Packaging Details

1 box with 10 vials with white plastic cap and tag
labelled (5 Freeze-dried vials + 5 vials with rehydration
fluid).

Shelf Life

36 months

Storage

2-25 °C

Composition

Composition (vial):

Vitamin B12.....	0.10 mg
L-Glutamine.....	100 mg
Adenine.....	10 mg
Guanine.....	0.3 mg
p-Amino benzoic acid.....	0.13 mg
L-Cystine.....	11 mg
β-NAD.....	2.5 mg
CoCarboxilase.....	1 mg
Ferric Nitrate.....	0.2 mg
Thiamine Vit B1.....	0.03 mg
Cysteine.....	259 mg
Glucose.....	1.0 g

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..... 6 ml

Description /Technique

Nutritional supplement that enhances the growth of fastidious microorganisms such as *Neisseria*.

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Reconstitute the vial with the sterile diluent in aseptic conditions and add it to 250 ml of any melted GC Agar base cooled to 50°C, previously supplemented also with hemoglobin (250ml).

Do not overheat once supplemented.

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 the plates in microaerophilic conditions at 35 ± 2°C for 24-48h.

(Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample or the specifications).

After incubation, count all the colonies that have appeared onto the surface of the agar.

Presumptive isolation of *Neisseria* spp. must be confirmed by further microbiological and biochemical tests.



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Quality control

Physical/Chemical control

Color : Pink

Microbiological control

Distribute the complete medium, cooled to 50 °C, into 90 mm plates

Inoculate 30-300 CFU (productivity) 1.000-10.000 CFU (selectivity)

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Microaerophila. Incubation at 37 ± 1 °C, reading after 24-48 hours

Microorganism

Growth

Neisseria meningitidis ATCC® 13090

Good

Neisseria gonorrhoeae ATCC® 19424

Good

Sterility control

Study 5 vials - Reconstitute and dissolve each one in 100 ml of TSA + neutralizers - Pour into 90 mm plates.

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

Bibliography

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· MacFADDIN, J. (1985) Media for isolation-cultivation-Identification-maintenance of medical bacteria. Vol. I. William & Wilkins. Baltimore.

· ODEGAARD, K. (1971) Trimethoprim for the prevention of overgrowth by swarming Proteus in the cultivation of gonococci. Acta. Path. Microbiol. Scand. Sect. (B) 79:545-548.

· THAYER, J. D. & J. E. MARTIN (1966). Improved medium selective for cultivation of Neisseria gonorrhoeae and N. meningitidis Pub. Health Rep. 81:559-562.