

# TECHNICAL DATA SHEET

Article No. 8820

**Legionella GVPC Selective Supplement**

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## SPECIFICATION

Sterile selective supplement for the isolation of *Legionella* species from environmental water samples.

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## COMPOSITION (G/VIAL)

Glycine	1.5000
Vancomycin	0.0005
Polymyxin B sulphate	40000 IU
Cycloheximide	0.0400

Reconstitute the original freeze-dried vial by adding

Sterile Distilled Water      10 ml

Each vial is sufficient to supplement 500 ml Legionella BCYE Agar (base) (Art. no. 8811).  
10 vials with freeze-dried supplement per box.

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## DESCRIPTION/TECHNIQUE

The discovery of the causative organism of Legionnaires' disease has permitted big progress in the studies around it. Media for the culture and the enumeration *Legionella* spp. have been developed. Legionella GVPC selective supplement, when added to the agar base, gives the antibiotic support in order to obtain a selective final medium. The selectivity is raised by the addition on vancomycin that acts against Gram positive bacteria, polymyxin B that inhibits Gram positive bacteria and cycloheximide or natanamycin that are antifungal agents and inhibit yeast growth.

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

Reconstitute the vial with 10 ml of aqua dest. in aseptic conditions, and add it to 500 ml of melted Legionella BCYE Agar (base) cooled to 50 °C. Do not overheat once supplemented.

Pour the complete medium into Petri dishes and, once solidified on a flat surface, spread the plates by streaking methodology or by spiral method.

Incubate the plates, when the inoculum has been completely absorbed, in aerobic atmosphere at 36 °C for 4-10 d. To ensure the atmosphere in the incubator is humid, place a tray of water in the bottom of the incubator. Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample or the specifications.

Examine the plates with a plate microscope on at least three occasions at intervals of 2-4 d during the 10-day incubation period, as *Legionella* grow slowly and can be masked by the growth of other organisms.

Record the number of each type of colony present. After incubation, count all the colonies that have appeared on the surface of the agar.

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Amtsgericht Stuttgart / HRA-Nr. 254140  
Persönlich haftende Gesellschafterin:  
Geyer Beteiligungsgesellschaft mbH  
Amtsgericht Stuttgart / HRB-Nr. 252035  
Geschäftsführer: Lutz-Alexander Geyer / Thomas Roth

Colonies of *Legionella* are often white-grey-blue-purple in colour, but may be brown, pink, lime-green or deep-red. Presumptive isolation must be confirmed by further microbiological and biochemical tests.

## QUALITY CONTROL

- Physical/chemical control: Colour light beige  
pH at 25 °C
- Microbiological control: Reconstitute 1 vial as indicated, 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 °C, into 90 mm plates.

Microorganism	Growth	Remarks
<i>Pseudomonas aeruginosa</i> ATCC® 9027	Partial Inhibition	None
<i>Escherichia coli</i> ATCC® 8739	Inhibited	None
<i>Enterococcus faecalis</i> ATCC® 19433	Inhibited	None
<i>Legionella anisa</i> ATCC® 35292 (by MF)	Good (≥ 50 %) grey-blue colonies	None
<i>Legionella pneumophila</i> ATCC® 33152 (by MF)	Good (≥ 50 %) grey-blue colonies	None

- Sterility control: Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: No growth.  
Check at 7 d after incubation at the same conditions.

## REFERENCES

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## STORAGE

2-25 °C

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## SHELF LIFE

49 months from date of production.

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