



Reference : 01-451

Scharlau Microbiology - Technical data sheet

Product :
Preston *Campylobacter* Agar Base

Also known as

Nutrient Agar no. 2

Specification

A general purpose medium-base that when appropriately supplemented can be used as a selective medium for *Campylobacter*.

Formula * in g/L

Meat extract.....	10.00
Meat peptone.....	10.00
Sodium chloride.....	5.00
Agar.....	15.00

Final pH 7,5 ±0,2 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Add 40 g of the powder to 1 L of distilled water and bring to the boil. Distribute in suitable containers and sterilize in an autoclave for 15 minutes at 121°C. For Preston *Campylobacter* Agar, cool to 45-50°C and add to each 500 mL of medium base : a) Lysed Blood in a proportion of 5% (v/v);
b) A vial of Growth Supplement for *Campylobacter* (Art. No. 06-128-008) and c) A vial of Selective Supplement for *Campylobacter* according to Preston (Art. No. 06-130LYO1) or a vial of Modified Selective Supplement for *Campylobacter* according to Preston (Art. No. 06-135LYO1). Mix carefully and pour into Petri dishes.



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Description

Nutrient Agar no. 2 differs from the usual nutrient formulations in that the greater concentration of nutrients allows improved recovery of stressed or damaged microorganisms. This greater nutrient enrichment with and reducing atmosphere that is conferred by the growth supplement (Art. No. 06-128-008) makes it a very suitable medium for microaerophilic/capnophilic microorganisms and if, in addition, some of the appropriate inhibitor supplements are added it becomes a selective medium for *Campylobacter*.

Necessary supplements

Campylobacter Growth Supplement (Art. No. 06-128-008)

Vial Contents:

Necessary amount for 500 mL of complete medium.

Sodium pyruvate 0,125 g

Sodium metabisulfite 0,125 g

Ferrous sulfate 0,125 g

Distilled water (Solvent)

Campylobacter Preston Selective Supplement (Art. No. 06-130LYO1)

Vial Contents:

Necessary amount for 500 mL of complete medium.

Polymyxin B sulfate 2500,00 IU

Rifampicin 5,00 mg

Trimethoprim 5,00 mg

Cycloheximide 50,00 mg

Distilled water (Solvent)

Campylobacter Preston Modified Selective Supplement (Art. No. 06-135LYO1)

Vial Contents:

Necessary amount for 500 mL of complete medium.

Polymyxin B sulfate 2500,00 IU

Rifampicin 5,00 mg

Trimethoprim 5,00 mg

Amphotericin B sulfate 5,00 mg

Distilled water (Solvent)

Quality control

Incubation temperature: 41,5 ± 1°C

Incubation time: 44 ± 4h

Inoculum: Practical range 100 ± 20 CFU. Min. 50 CFU (Productivity) / 10⁴-10⁶ CFU (Selectivity) according to ISO 11133:2014/Amd 1:2018 .

Microorganism

Campylobacter jejuni ATCC® 29428

Campylobacter coli ATCC® 43478

Escherichia coli ATCC® 8739

Proteus mirabilis ATCC® 29906

Growth

Productivity > 0.50

Productivity > 0.50

Partial inhibition

Total inhibition

Remarks

Under microaerophilic atmosphere

Under microaerophilic atmosphere

W. supplements

W. supplements



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References

- BOLTON, F.J. & L. ROBERTSON (1982) A selective medium for isolating *Campylobacter jejuni/coli* J. Clin. Pathol. 35:462-467.
- BOLTON, F.J., D. COATES, P.M. HINCHLIFFE & L. ROBERTSON (1983) Comparison of selective media for isolation of *Campylobacter jejuni/coli* J. Clin. Pathol. 36:78-83.
- CORRY, J.E.L., H.I. ATABAY, S.J. FORSYTHE & L.P. MANSFIELD (2003) Culture Media for the Isolation of *Campylobacters*, *Helicobacters* and *Arcobacters*, en Corry et al. (Eds) Handbook of Culture Media for Food Microbiology Chap 18 pgs 271-316. Elsevier Science B.V. Amsterdam.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).
