Instructions for Use

REF - LS0029 Campylobacter Blaser Wang Selective Supplement

Freeze-Dried Supplement

1. Intended Use

LS0029 Campylobacter Blaser Wang Selective Supplement is a supplement used to enhance the selective isolation of *Campylobacter* spp. primarily from clinical specimens.

2. Composition*

For one litre of prepared media

Ingredient	mg/L
Vancomycin	10.0
Polymyxin	0.30
Trimethoprim	5.0
Cephalothin	15.0
Amphotericin B	2.0

*Adjusted/supplemented as needed to meet performance requirements

3. Summary and Explanation

LS0029 Campylobacter Blaser Wang Selective Supplement is formulated to be used with KM0001 Columbia Agar Base and DHB Defibrinated Horse Blood to form Campylobacter Selective Agar (Butzler).

Campylobacter spp. are Gram-negative, spiral-shaped microaerophilic organisms found in raw milk, untreated water, improperly handled food, and raw meats, poultry, and shellfish. Human consumption of these organisms can cause a variety of clinical illnesses, ranging from transient asymptomatic colonisation to severe dysentery. *Campylobacter* enteritis symptoms include diarrhoea, stomach pain, nausea, fever, headache, and muscle pain.

4. Principle

Vancomycin, Polymyxin, Trimethoprim, Cephalothin and Amphotericin B are added as selective agents to enhance the selective isolation of *Campylobacter*.

5. Preparation Instructions

To reconstitute the contents of each vial, aseptically add the recommended volume of sterile deionised water. Close the vial and gently agitate to assist reconstitution. Avoid frothing and the resulting solution will be free from visible particulate matter.
Add the contents of the vial to the appropriate volume of sterile base medium, KM0001 Columbia Agar Base and DHB Defibrinated Horse Blood prepared according to the instructions provided and allowed to cool to 45°C- 50°C. Mix gently but thoroughly and pour aseptically into sterile Petri dishes.

6. Physical Characteristics

	Pellet Appearance	Reconstituted
Appearance and Colour	Yellow Solid Pellet	Yellow liquid

7. Materials Provided

LS0029 Campylobacter Blaser Wang Selective Supplement is supplied 10 vials per box (lyophilised) (5ml neutral clear crimped vial suitable for 500ml of media. Product code: LS0029-V001-500). Each vial is labelled with product name, product code, lot number and expiry date.

8. Materials Needed but not Provided

Standard microbiological laboratory materials e.g., sterile loops or swabs, collection containers, incubators, media for isolation and quality control organisms, sterile media (e.g., Campylobacter Selective Agar (Butzler) made up from KM0001 Columbia Agar Base and DHB Defibrinated Horse Blood)

9. Specimens

LS0029 Campylobacter Blaser Wang Selective Supplement can be used with the following specimens when added to KM0001 Columbia Agar Base and DHB Defibrinated Horse Blood to form Campylobacter Selective Agar (Butzler):

- Clinical: samples and swabs

Sampling and transport equipment must be used in accordance with the end user's suppliers' recommendations. Refer to appropriate standard method or local guidance on sample collection and subsequent processing.

10. Test Procedures and Interpretation of results

Allow all the prepared plates to come to room temperature.

Based on sample type and information provided, check to see if the specimen needs to be pre-enriched prior to inoculation to the prepared medium.

Clinical Specimens:

- Process clinical specimen as required by local guidelines.
- Inoculate specimen, or pre-enriched sample, directly onto the medium and streak across the agar surface using a sterile loop or automated plate streaker.
- Incubate at 42 ± 1°C for 44 ± 4 hours.

After incubation, examine plates for typical colonies. Perform further biochemical, serological or mass spectroscopy testing to confirm identity of presumptive positive isolates. Refer to relevant local guidelines.

11. Quality Control

Organism	Incubation	Result (Specificity)
C. jejuni (NCTC 11322)	37 ± 1°C microaerophilically for 36-48 hours	Growth: Grey spreading colonies
E. faecalis (NCTC 12697)	37 ± 1°C microaerophilically for 36-48 hours	Inhibited
P. mirabilis (NCTC 10975)	37 ± 1°C microaerophilically for 36-48 hours	Inhibited
C. albicans (NCPF 3179)	37 ± 1°C microaerophilically for 36-48 hours	Inhibited

It is the responsibility of the user to perform Quality Control testing taking into consideration the intended use of the medium produced, and in agreement with any local relevant guidelines (e.g., frequency, strains used, atmosphere, incubation temperature).

12. Performance

To fully verify LS0029 Campylobacter Blaser Wang Selective Supplement performance, supplement samples were added to sterilised Columbia Agar Base and DHB Defibrinated Horse Blood and resulting plates tested to assess colony morphology and recovery level (where an acceptable range is ≥50% and ≤120%) compared to a non-selective reference medium. Samples were inoculated with 30-150cfu and incubated at 37 ± 1°C microaerophilically for 36-48 hours. All samples grew and showed good recovery and the correct morphology of the required test organism: *Campylobacter jejuni* (NCTC 11322). Product selectivity was evaluated by inoculating the test plates with ≥3.0 x 10^4 - ≤1.5x10^5 cfu of the required non-target test organisms: *Enterococcus faecalis* (NCTC 12697), *Proteus mirabilis* (NCTC 10975) and *Candida albicans* (NCPF 3179), which were inhibited and have a selectivity factor of ≥ 3. LS0029 Campylobacter Blaser Wang Selective Supplement meets performance criteria when used according to the instructions outlined above. Trend analysis data available upon request.

13. Limitations of the Media

- Due to natural variation, some strains may grow poorly or fail to grow on this medium.
- Biochemical and, if indicated, serological testing using pure cultures may be necessary for complete identification; these tests should be performed from a non-selective agar.

14. Precautions and Warnings

This product is considered hazardous under CLP regulations. Refer to LS0029 Material Safety Data Sheet prior to use. Wear such PPE as recommended by laboratory COSHH assessment. During and after use, always handle all materials in a manner conforming to Good Laboratory Practices and consider that material under test should be regarded as a potential biohazard if mishandled.

Do not use if supplement is not specified colour, has been stored inappropriately or the packaging has been damaged. Once reconstituted, any unused supplement should be discarded.

15. Storage conditions and Shelf life

LS0029 Campylobacter Blaser Wang Selective Supplement must be stored at 2°-8°C. Kept under these conditions it may be used up to date of expiry shown on product label.

Dispose of in accordance with local and national authority requirements.

Revision

001 11/05/16 - New document
002 18/01/17 - Update to new flow diagram format
003 10/11/23 - Updated to new format and standard

*Note: minor typographical, grammatical, and formatting changes are not included in the revision history.

EC REP
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TABLE OF APPLICABLE SYMBOLS

REF o REF Catalogue number	LOT Batch code		Manufacturer	Use by
Temperature limitation	Contents sufficient for <n> tests	Consult Instructions for Use	Keep away from direct light	Store in a dry place