

TECHNICAL DATA SHEET

CHLORAMPHENICOL SELECTIVE SUPPLEMENT 50 MG

DETECTION AND ENUMERATION OF YEASTS & MOLDS

1 INTENDED USE

The Chloramphenicol Selective Supplement 50 mg, supplied as a lyophilized preparation, inhibits the development of most bacterial contaminants, thereby favoring the isolation of yeasts and molds.

The supplement can substitute for the Oxytetracycline supplement recommended in the routine Directive NF V08-059, for the enumeration of yeasts and molds in food microbiology. Indeed, when incubation temperatures are higher than 25°C, it is preferable to use chloramphenicol which in these conditions is more stable than oxytetracycline, which loses antimicrobial activity over time.

The supplement can also be added to Sabouraud Agar, (BK025), to obtain Sabouraud Chloramphenicol Agar, which also exists in complete dehydrated form (BK007).

2 TYPICAL COMPOSITION

For one vial :

- Chloramphenicol 50,0 mg

3 RECONSTITUTION

- Using aseptic techniques, fill the vial with 3 mL of sterile distilled water, then with 2 mL of acetone or with 5 mL of a 1:1 solution ethanol/sterile distilled water.
- Turn end-over-end to dissolve. Avoid frothing the solution.
- Aseptically add 1 mL of the selective supplement to 110 mL of molten Oxytetracycline Glucose base (BK053) held at 44-47°C or to 100 mL Sabouraud Agar (BK025).
- Mix well.

Note

The supplement can also be used with Brain-Heart Agar for the detection of specific microorganisms.

4 QUALITY CONTROL

Aspect : white pellet, giving a clear colorless solution to slightly opalescent after reconstitution.

Bacteriological efficacy in OGA Agar base after 72 hours of incubation at 25°C (NF EN ISO 11133) :

Microorganisms	Growth (Productivity Ratio : P_R)
<i>Saccharomyces cerevisiae</i> WDCM 00058	$P_R \geq 50 \%$
<i>Candida albicans</i> WDCM 00054	$P_R \geq 50 \%$
<i>Aspergillus brasiliensis</i> WDCM 00053	$P_R \geq 50 \%$
<i>Escherichia coli</i> WDCM 00013	Inhibited
<i>Bacillus subtilis</i> WDCM 00003	Inhibited

5 STORAGE / SHELF LIFE

Freeze-dried supplement : 2-8 °C.

The expiration date is indicated on the label.

Rehydrated supplement (*) : 30 days at 2-8 °C.

(*)Benchmark value, determined in standard conditions of preparation, following manufacturer's instructions.

6 PACKAGING

10 vials BS02108

7 BIBLIOGRAPHY

NF V08-059. Novembre 2002. Microbiologie des aliments. Dénombrement des levures et moisissures par comptage des colonies à 25°C. Méthode de routine.

ISO 6611. Octobre 2004. Lait et produits laitiers. Dénombrement des unités formant colonie de levures et/ou moisissures. Comptage des colonies à 25°C.

NF EN 15789. Décembre 2009. Aliments des animaux. Isolation et dénombrement de souches probiotiques de levures (*Saccharomyces cerevisiae*).

8 ADDITIONAL INFORMATION

The information provided on the labels take precedence over the formulations or instructions described in this document and are susceptible to modification at any time, without warning.

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