

Specification

Sterile selective supplement used for the isolation and enumeration Yeast and Mould from foodstuffs.

Presentation

	Packaging Details	Shelf Life	Storage
10 Freeze dried vials Vial with: $3 \pm 0,1$ g	22±0,25 x 55±0,5 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	49 months	2-25°C

Composition

Composition (g/vial)

Oxytetracycline..... 0.050

NOTE : Each vial is sufficient to supplement
500ml of OGYE Agar Base.

Reconstitute the original freeze-dried vial
by adding
Sterile distilled water..... 6 ml

Description /Technique

Description:

Oxytetracycline supplement permits to isolate yeasts and moulds in a medium with a neutral pH that gives increased count of them from a variety of foodstuffs compared with media which relied on a low pH to suppress bacterial growth.
In this way physically stressed yeast cells give higher counts on media which depend upon broad-spectrum antibiotics rather than a low pH for selectivity.

Technique:

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.
Reconstitute 1 vial with the sterile diluent (distilled water) in aseptic conditions and add it to 500 ml of OGYE agar base cooled to 50°C temperature.
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 in aerobic atmosphere for 5 days at 20-25 °C, checking for formation of aerial mycelia after 2-5 days.
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 any pathogenic Yeast and/or Mould must be confirmed by further microbiological and biochemical tests.

Quality control

Physical/Chemical control

Color : yellow pH: at 25°C

Microbiological control

Add 1 vial to 500 ml of medium base. DO NOT HEAT once supplemented.
Microbiological control according to ISO 11133:2014/ Adm 1:2018.
Aerobic. Incubation at $22.5 \pm 2^\circ\text{C}$ until 5 days (moulds and yeast).

Microorganism

Growth

<i>Aspergillus brasiliensis</i> ATCC® 16404, WDCM 00053	Good
<i>Candida albicans</i> ATCC® 10231, WDCM 00054	Good
<i>S. cerevisiae</i> ATCC® 9763, WDCM 00058	Good
<i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003	Inhibited
<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Inhibited

Sterility Control

100ml TSB and 100ml Thioglycollate
Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH
Check at 7 days after incubation in same conditions

Bibliography

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