



Reference: 06-115LYO1

Scharlau Microbiology - Technical Data

Product: **Oxytetracycline Selective Supplement**

### Specification

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

### Presentation

10 Freeze dried vials  
Vial  
with:  $3 \pm 0.1$  g

#### Packaging Details

23x60 mm glass vials, tag labelled, White plastic cap -  
10 vials per box.

#### Shelf Life

49 months

#### Storage

2-25 °C

### Composition

Compositon (g/vial)

Oxytetracycline..... 0.050

**NOTE :** Each vial is sufficient to supplement  
500 ml 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.



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## Quality control

### Physical/Chemical control

Color : yellow

### Microbiological control

Add 1 vial to 500 ml of medium base. DO NOT HEAT once supplemented.

Microbiological control according to ISO 11133:2014/A1:2018.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobic. Incubation at  $22.5 \pm 2$  °C until 5 days (moulds and yeast).

### **Microorganism**

### **Growth**

*Aspergillus brasiliensis* ATCC® 16404, WDCM 00053

Good

*Candida albicans* ATCC® 10231, WDCM 00054

Good

*S. cerevisiae* ATCC® 9763, WDCM 00058

Good

*Bacillus subtilis* ATCC® 6633, WDCM 00003

Inhibited

*Escherichia coli* ATCC® 8739, WDCM 00012

Inhibited

### Sterility control

100 ml TSB and 100 ml Thioglycollate.

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

## Bibliography

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- MARSHALL, R.T. (1992) Standard methods for the examination of dairy products 16th ed. APHA. Washington DC, USA.
- MOSSEL, D.A.A., A.M.C. KLEYNEN-SEMMEILING, H.M. VINCENTIE, H. BEERENS & M. CATSARAS (1970) Oxytetracycline-Glucose-Yeast Extract Agar for selective enumeration of moulds and yeasts in foods and clinical material. J. Appl. Bacteriol. 33:454-457.
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