



HiCrome OGYE Agar Base

M1467

HiCrome OGYE Agar Base is recommended for isolation and enumeration of yeasts and moulds from milk and milk products by chromogenic method.

Composition**

| Ingredients | Gms / Litre |
|---------------------|-------------|
| Yeast extract | 4.000 |
| Dextrose | 20.000 |
| Chromogenic mixture | 1.100 |
| Agar | 12.000 |
| Final pH (at 25°C) | 7.0±0.2 |

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 18.55 grams in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add reconstituted contents of one vial of Oxytetra Selective Supplement (FD032). Mix well and pour into sterile Petri plates.

Principle And Interpretation

OGYE Agar Media were originally formulated by Mossel et al (1,2) for the isolation and enumeration of yeasts and moulds from foodstuffs. Mossel et al (3) further added Oxytetracycline as a selective agent and found that the use of Oxytetracycline in a medium with a neutral pH gives increased counts of yeasts and moulds as compared to media having a low pH to suppress bacterial growth. HiCrome OGYE Agar is a selective and differential medium, which facilitates rapid isolation of yeasts and moulds from milk and milk products.

Yeast extract provides essential growth nutrients. Dextrose acts as carbon and energy source. The low pH helps to reduce the bacterial flora. Oxytetracycline makes the medium, more selective by inhibiting the growth of Lactobacilli encountered in milk and milk-products at low pH. Incorporation of chromogenic compounds into the growth medium helps in identification of yeasts and moulds isolates directly on primary isolation. * *Aspergillus brasiliensis* appear as light blue coloured colonies with black spores due to presence of chromogenic mixture, *C.albicans* shows green coloured colonies and *Saccharomyces cerevisiae* gives colourless colonies.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.2% Agar gel.

Colour and Clarity of prepared medium

Light amber coloured, clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 3.71 % w/v aqueous solution at 25°C. pH : 7.0±0.2

pH

6.80-7.20

Cultural Response

M1467: Cultural characteristics observed with added Oxytetra Selective Supplement, after an incubation at 25-30°C for 2-3days.

| Organism | Inoculum (CFU) | Growth | Colour of Colony | Recovery |
|----------|----------------|--------|------------------|----------|
|----------|----------------|--------|------------------|----------|

Cultural Response

| | | | | |
|--|-------------------|-----------|---------------------------------|-------|
| <i>*Aspergillus brasiliensis</i> ATCC 16404 | 50-100 | luxuriant | light blue with black spores | |
| <i>Candida albicans</i> ATCC 10231 | 50-100 | luxuriant | green | >=50% |
| <i>Escherichia coli</i> ATCC 25922 | >=10 ³ | inhibited | | 0% |
| <i>Saccharomyces cerevisiae</i> ATCC 9763 | 50-100 | luxuriant | colourless | >=50% |

Storage and Shelf Life

Store dehydrated powder and prepared medium at 2-8°C. Use before expiry period on the label.

Reference

- 1.Mossel D.A.A. et al, 1970, J. Appl. Bact., 33:454.
- 2.Mossel D.A.A., Harrewijn G.A. and Elzebrock J.M., 1973, UNICEF.
- 3.Mossel D.A.A., Visser M. and Mengerink W.H.J., 1962, Lab. Prac. 11:109.

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