



Oxytetracyclin-Glucose-Yeast Extract (OGYE) Agar Base

Medium for the selective isolation and enumeration of yeasts and moulds in foods.

Granulated Culture Media – Safer from Merck.



Oxytetracyclin-Glucose-Yeast Extract Agar (OGYE Agar) Base



Medium for the selective isolation and enumeration of yeasts and moulds in foods

Cat. No. 1.05978.0500
(500 g)

Oxytetracycline-Glucose-Yeast Extract Agar (OGYE Agar) is described by MOSSEL et al. (1962, 1970) used for the isolation and enumeration of yeasts and moulds in foods. The medium complies with ISO 6611 and 13681.

Mode of action

The base medium allows good growth of yeasts and moulds. Oxytetracycline inhibits the growth of bacteria.

Typical composition (g/litre)

Yeast Extract 5.0; glucose (dextrose) 20.0; Agar-Agar 12.0.

Preparation

Suspend 18.5 g in 500 ml of purified water. Heat to boiling to dissolve completely. Autoclave at 121°C for 15 minutes. Cool the medium to 45–50°C and aseptically add the contents of 1 vial OGYE Selective Supplement. Mix well and pour into plates.

pH: 6.6 ± 0.2 at 25°C

The prepared medium is clear and slight yellowish-brown in colour.

Experimental procedure and evaluation

The plates are inoculated using the pour-plate method or the surface spreading method.

Incubation: up to 5 days at 20–25°C

Count the number of colonies per plate. Calculate the dilution factor into the final count for the sample tested.



Candida albicans and Aspergillus niger

Additives

Merck Cat.No.	Product	Pack. size
1.09877.0001	OGYE Selective Supplement	15 vials

Quality control

Tests strains	Growth
<i>Candida albicans</i> ATCC 10231	good/very good
<i>Microsporum canis</i> ATCC 36299	fair/good
<i>Penicillium commune</i> ATCC 10428	good/very good
<i>Aspergillus niger</i> ATCC 16404	good/very good
<i>E.coli</i> ATCC 25922	none
<i>Pseudomonas aeruginosa</i> ATCC 27853	none
<i>Bacillus cereus</i> ATCC 11778	none



OGYE Selective Supplement

Additive for preparation of OGYE Agar Base

Cat.No. 1.09877.0001 (15 vials)

Mode of action

OGYE Selective Supplement contains Oxytetracycline in lyophilized form. It suppresses the growth of the accompanying bacterial flora during the culture of yeast and moulds.

Composition (per vial)

Oxytetracycline in a buffered base 0.05 g.

Experimental Procedure

The lyophilisate is dissolved in the original vial by adding 10 ml of sterile, distilled water.

In the preparation of OGYE Agar, the dissolved contents of one vial is evenly mixed into 500 ml of sterile, still liquid medium cooled to 45–50 °C.



Literature

MOSSEL, D.A.A., VISSER, M., and MENERINK, W.H.J.:

A comparison of media for the enumeration of moulds and yeasts in foods and beverages.

• *Lab. Pract.* 11: 109–112 (1962).

MOSSEL, D.A.A., KLEYNEN-SEMMELING, A.M.C., VINCENTIE, H.M., BEERENS, H., and CATSARAS, M.:

Oxytetracycline-Glucose-Yeast Extract Agar for selective enumeration of moulds and yeasts in foods and clinical material. • *J. Appl. Bact.* 33: 454–457 (1970).

ISO 6611 – Milk and milk products – Enumeration of colony-forming-units of yeasts and/or moulds – Colony count technique at 25°C

ISO 13681 – Meat and meat products – Enumeration of yeasts and moulds – Colony count technique



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