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

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

Oxytetracycline-Glucose-Yeast Extract Agar (OGYE Agar) is described by MOSSEL et al. (1962, 1970) used for the isolation and enumeration of yeasts and molds in foods.

Mode of Action

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

Typical composition (g/liter)

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 color.

Experimental Procedure and Evaluation

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

Literature

MOSSEL, D.A.A., VISSER, M., and MENGERINK, 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).

Ordering Information

Product	Merck Cat. No.	Pack size
Oxytetracyclin-Glucose-Yeast Extract Agar (OGYE Agar) Base	1.05978.0500	500 g
OGYE Selective Supplement	1.09877.0001	1 x 15 vials

Candida albicans and Aspergillus niger

Quality control

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