

PRODUCT CODE: 414958

OGYE Agar Base (Dehydrated Culture Media) for microbiology

Preparation

Suspend 15 grams of the medium in 500ml of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Sterilize in autoclave at 121°C for 10 minutes. Cool to 45-50°C and aseptically add 1 ml of 10% Oxytetracycline or 0.5 ml of 10% Gentamicin. Homogenize gently and dispense into Petri dishes. The prepared medium should be stored at 8-15°C.

The colour is yellowish-white. The dehydrated medium should be homogeneous, free-flowing and beige in colour. If there are any physical changes, discard the medium.

SUPPLEMENTS

Oxytetracycline..... A5257
Gentamycin A4854

Uses

O.G.A. MEDIUM (Oxytetracycline Glucose Agar Base) is a selective medium, introduced by MOSSEL et al. and recommended for the isolation and enumeration of yeasts and molds in foodstuffs, clinical specimens and cosmetics.

With a neutral pH, the oxytetracycline produces better results than when a low pH medium is used to inhibit bacterial growth. This medium inhibits the acidophilus organisms, *Lactobacillus* included. Yeast extract is a source of vitamins, particularly of the B-group essential for bacterial growth. Glucose is the fermentable carbohydrate as an energy source. Bacteriological agar is the solidifying agent. The pour plate method is recommended as indicated below: Inoculate 1 ml of 10⁻¹ diluted food sample and incubate at 20 - 25°C.

Examine daily from the 2nd to the 6th day for the formation of *aerial mycelia*. Count numbers of colonies in plates where there are 50 - 100 colonies after 5 days. Calculate number of yeasts or molds per 1 g or 1 ml by multiplying the number of colonies by the dilution factor.

(*) When examining faecal specimens from patients under tetracycline treatment, *Enterobacteriaceae* are not adequately inhibited. Oxytetracycline should then be replaced by Gentamicin.

Composition

See in Data Sheet (TDS).

Microbiological Test

The following results were obtained in the performance of the medium, with the O.G.A. Supplement (Cat. 6018) added, from type cultures after incubation at a temperature of 20-25°C and observed after 5 - 7 day.

Microorganism	Growth
<i>Escherichia coli</i> ATCC 25922	Inhibited
<i>Pseudomonas aeruginosa</i> ATCC 27853	Inhibited
<i>Candida albicans</i> ATCC 10231	Good
<i>Penicillium chrysogenun</i> ATCC 8537	Good
<i>Aspergillus brasiliensis</i> ATCC 16404	Good

Storage

Once opened keep powdered medium closed to avoid hydration.