

**Oxytetracycline-Glucose-Yeast extract agar base
(OGYE agar)**

Art. 84659.0500

DEHYDRATED MEDIUM

Also known as

Oxytetracycline-Glucose-Yeast Extract Agar; OGY; OGYE Agar Base

Intended use

Solid culture medium for the total enumeration of moulds and yeast.

Formula * - Composition in g/L

Glucose.....	20.00
Yeast extract.....	5.00
Agar.....	15.00

Final pH 7.0 ±0.2 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Instructions for preparation

Suspend 40 g of powder in 1 l of purified water and let it soak for a few minutes. Distribute into suitable containers and sterilise in the autoclave for 10 minutes at 115 °C. Cool to 50°C and add 2 vials of Oxytetracycline Selective Supplement (Art. 928190NL). Mix well and pour into plates.

Principle of the method and general information

This formulation of the classical Sabouraud Medium differs from others as it has no peptone and has a neutral pH. It has a high oxytetracycline concentration that will provide almost total inhibition of bacteria. According to ISO 13681 (1995), the combination with Gentamicin increases the inhibition of bacterial growth medium.

Necessary supplements

Oxytetracycline Selective Supplement (Art. No. 928190NL)

Vial contents:

Necessary amount for 500 mL of complete medium.

Oxytetracycline HCl..... 50.00 mg

Distilled water (Solvent)

Instruction for use

Some authors suggest an inoculum of 1 ml to prepare a series of suitable dilutions, in duplicate seed Petri dishes using the pour plate method. Incubate at 22-25°C for 5 days with intermittent observations after 3 days incubation.

Quality control
Incubation temperature: 20-25°C

Incubation time: ≤ 5 days

Inoculum: Practical range 100 ± 20 CFU. Min. 50 CFU (Productivity) / 10⁴-10⁶ CFU (Selectivity) according to ISO 11133:2014/Amd 1:2018 .

Microorganism	Growth	Remarks
<i>Bacillus subtilis</i> ATCC® 6633	Inhibited	Selectivity
<i>Escherichia coli</i> ATCC® 8739	Inhibited	Selectivity
<i>Saccharomyces cerevisiae</i> ATCC® 9763	Productivity > 0.50	-
<i>Candida albicans</i> ATCC® 10231	Productivity > 0.50	-
<i>Aspergillus brasiliensis</i> ATCC® 16404	Productivity > 0.50	Black sporulation (5 days)

References

- DOWNES, F.P. & K. ITO (2001) Compendium of methods for the microbiological examination of foods. APHA. Washington DC. USA.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 13681 Standard (1995) Enumeration of Yeasts and Moulds. Colony Count Technique.
- ISO 6611/ IDF 94 Standard (2004) Enumeration of yeast and moulds. Colony Count Technique at 25°C.
- MacFADDIN, J.F. (1985) Media for isolation-cultivation-identification-maintenance of medical bacteria. William & Wilkins. Baltimore. MD. USA.
- 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.
- SABOURAUD, R. (1910) Les Teignes. Masson, Paris.

Storage conditions

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).

Ordering information

84659.0500 Oxytetracycline-Glucose-Yeast extract agar base (OGYE agar) Bulk of 500 g.

Note: For supplements see the section - Instructions for preparation.