

Also known as

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

Specification

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

Formula * 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

Directions

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. DSHB3066). Mix well and pour into plates.

Description

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. DSHB3066)

Vial contents:

Necessary amount for 500 mL of complete medium.

Oxytetracycline HCl..... 50.00 mg

Distilled water (Solvent)

Technique

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 à 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

Bacillus subtilis ATCC® 6633

Inhibited

Selectivity

Escherichia coli ATCC® 8739

Inhibited

Selectivity

Saccharomyces cerevisiae ATCC® 9763

Productivity > 0.50

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Candida albicans ATCC® 10231

Productivity > 0.50

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Aspergillus brasiliensis 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

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