



Sabouraud CAF Agar

Selective medium for the cultivation and isolation of pathogenic and nonpathogenic fungi.

DESCRIPTION

Sabouraud CAF Agar is a selective medium used for the cultivation and isolation of fungi from clinical and nonclinical specimens.

TYPICAL FORMULA

| | (g/l) |
|-----------------------------------|-------|
| Enzymatic Digest of Casein | 5.0 |
| Enzymatic Digest of Animal Tissue | 5.0 |
| Glucose | 40.0 |
| Chloramphenicol | 0.5 |
| Agar | 15.0 |
| Final pH 5.6 ± 0.2 at 25°C | |

METHOD PRINCIPLE

Enzymatic digests of casein and enzymatic digest of animal tissue provide nitrogen and vitamins for the growth of fungi. The high glucose concentration along with the acid pH make this medium particularly well suited for cultivating fungi. Chloramphenicol is a broad-spectrum antibiotic inhibitory to a wide range of Gram-negative and Gram-positive bacteria. Agar is the solidifying agent.

PREPARATION

Dehydrated medium Suspend 65.5 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Sterilize in autoclave at 118°C for 15 minutes.

Medium in bottles Melt the content of the bottle in a water bath at 100°C (loosing the cap partially removed) until completely dissolved. Then screw the cap and check the homogeneity of the dissolved medium, if it is the case turning the bottle upside down. Cool at 45-50°C, mix well avoiding foam formation and aseptically distribute into final containers.

TEST PROCEDURE

Inoculate either plates or slant tubes by streaking directly the sample onto the agar surface. Streak the specimen as soon as possible after it is received in the laboratory. Incubate aerobically at 30°C for 2-7 days.

INTERPRETING RESULTS

Examine containers for fungal colonies exhibiting typical color and morphology. Biochemical tests and serological procedures should be performed to confirm findings.

Transfer of growth from slants to plated media may be required in order to obtain pure cultures of fungi.

APPEARANCE

Dehydrated medium: free-flowing, homogeneous, light beige.

Prepared medium: slightly opalescent, amber.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store bottles, tubes and prepared plates at 10-25°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.

Medium in bottles: 2 years.

Medium in tubes: 1 year.

Ready-to-use plates: 6 months.

QUALITY CONTROL

Plates are inoculated with the microbial strains indicated in the QC table.

Inoculum for productivity: 10-100 CFU/ml.

Inoculum for selectivity: 10⁴-10⁵ CFU/ml.

Incubation conditions: aerobically at 30±2°C for 2-7 days.

QC Table.

| Microorganism | | Growth |
|------------------------------------|-------------|-----------|
| <i>Aspergillus niger</i> | ATCC® 16404 | Good |
| <i>Candida albicans</i> | ATCC® 10231 | Good |
| <i>Saccharomyces cerevisiae</i> | ATCC® 9763 | Good |
| <i>Trichophyton mentagrophytes</i> | ATCC® 9533 | Good |
| <i>Escherichia coli</i> | ATCC® 8739 | Inhibited |

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE









Disposal of waste must be carried out according to national and local regulations in force.

BIBLIOGRAPHY

1. Sabouraud. 1892. Ann. Dermatol. Syphil. 3:1061.
2. Larone. 1995. Medically important fungi: a guide to identification, 3rd ed. American Society for Microbiology, Washington, D.C.
3. Wehr and Frank (ed.). 2004. Standard methods for the examination of dairy products, 17th ed. American Public Health Association, Washington, D.C.

| PRESENTATION | | Contents | Ref. |
|--------------------|----------------------------|--------------------|---------|
| Sabouraud CAF Agar | 90 mm ready-to-use plates | 20 plates | 11035 |
| Sabouraud CAF Agar | 90 mm ready-to-use plates | 100 plates | 11035* |
| Sabouraud CAF Agar | 140 mm ready-to-use plates | 10 plates | 10242 |
| Sabouraud CAF Agar | Slant tubes | 10 x 10 ml tubes | 30023 |
| Sabouraud CAF Agar | Slant tubes | 20 x 10 ml tubes | 31023 |
| Sabouraud CAF Agar | Bottles | 6 x 200 ml bottles | 412370 |
| Sabouraud CAF Agar | Bottles | 6 x 100 ml bottles | 402370 |
| Sabouraud CAF Agar | Dehydrated medium | 500 g of powder | 610203 |
| Sabouraud CAF Agar | Dehydrated medium | 100 g of powder | 620203 |
| Sabouraud CAF Agar | Dehydrated medium | 5 kg of powder | 6102035 |

TABLE OF SYMBOLS

| | | | | | |
|-----------------------------|--|---|--|---|---|
| LOT Batch code | IVD In vitro Diagnostic Medical Device |  Manufacturer |  Use by |  Fragile, handle with care |  Keep away from sunlight |
| REF Catalogue number |  Temperature limitation |  Contains sufficient for <n> tests |  Caution, consult Instruction For Use |  Do not reuse | |



LIOFILCHEM® s.r.l.

Via Scozia zona ind.le, 64026 Roseto degli Abruzzi (Te) Italy

Tel. +39 0858930745 Fax +39 0858930330 www.liofilchem.net liofilchem@liofilchem.net



SABOURAUD CAF AGAR – SABŪRO AGARAS SU CHLORAMFENIKOLIU

PARUOŠIMAS

65,5 g terpės suspenduojama viename litre distiliuoto vandens. Kaitinant maišoma kol visiškai ištirpsta. Sterilizuojama autoklavuojant 121°C temperatūroje 15 minučių. Vengti per didelio terpės kaitinimo. Ataušinama iki 45-50°C. Išpilstoma į Petri lėkštes.

PANAUDOJIMAS

SABŪRO AGARAS SU CHLORAMFENIKOLIU yra selektyvi terpė skirta oportunistinių patogeninių pelėsių (*Aspergillus*, *Fusarium*, *Mucor*, *Rhizopus*) izoliavimui klinikiniuose mėginiuose ir jautrių cikloheksimidui patogenų (*Allescheria boydii* ir *Cryptococcus neoformans*) izoliavimui. Chloramfenikolis, esantis terpės sudėtyje inhibuoja daugumos bakterijų augimą.

KULTŪRŲ CHARAKTERISTIKOS PO 7 DIENŲ INKUBAVIMO 25° C TEMPERATŪROJE

| Mikroorganizmai | Augimas |
|---|---------|
| <i>Aspergillus niger</i> ATCC 1015 | Geras |
| <i>Candida albicans</i> ATCC 10231 | Geras |
| <i>Saccharomyces cerevisiae</i> ATCC 9763 | Geras |

| | |
|----------------------|-----|
| Formulė (g/litre) | |
| Mikologinis peptonas | 10 |
| Gliukozė | 40 |
| Chloramfenikolis | 0,5 |
| Agaras | 15 |
| pH = 5,6 +/- 0,2 | |

| PRODUKTAS | KODAS | PAKAVIMAS |
|----------------------|--------|-----------|
| SABOURAUD AGAR + CAF | 610203 | 500 g |
| | 620203 | 100 g |