Sabouraud CAF (50 mg) Agar

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

DESCRIPTION

Sabouraud CAF (50 mg) Agar is a selective medium used for the isolation and enumeration of fungi from various material.

This medium consists of Sabouraud Dextrose Agar (SDA) with the addition of Chloramphenicol to inhibit contaminating bacteria while permitting successful selective isolation of yeasts and molds.

SDA is formulated according to the requirements of the harmonized methods of USP, EP, JP for the microbiological examination of non sterile pharmaceutical products. It also complies with EN ISO 11133 for microbiological examination of food, animal feed and water, where it is described as the main reference medium to carry out quantitative testing on culture media intended for fungi.

TYPICAL FORMULA*	(g/l)
Enzymatic Digest of Casein	5.0
Enzymatic Digest of Animal Tissue	5.0
Glucose (Dextrose)	40.0
Chloramphenicol	0.05
Agar	15.0
Final pH 5.6 ± 0.2 at 25°C	

*Formula may be adjusted and/or supplemented as required to meet performance specifications;
Grams per litre of purified water.

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

TEST PROCEDURE

Inoculate the plates by streaking directly the sample onto the agar surface.

For the enumeration of yeasts and moulds inoculate the medium by membrane filtration, pour-plate or surface-spread method.

Incubate at 20-25°C for 2-7 days or at 30-35°C for 24-48 hours, on the basis of the organisms under investigation.

INTERPRETING RESULTS

Examine for fungal colonies exhibiting typical microscopic and colonial morphology. Appropriate biochemical or immunological tests may be required for final identification.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store 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.
Ready-to-use plates: 6 months.

QUALITY CONTROL

Appearance of Dehydrated Medium: Free-flowing, homogeneous, light beige.

Appearance of Prepared Medium: Slightly opalescent, amber

Expected Cultural Response:

Microorganism		Inoculum	Incubation	Specification
Candida albicans	ATCC® 10231	≤100 CFU	24-48 h/ 30-35°C	Good growth
Candida albicans	ATCC® 10231		≤ 5 days/ 20-25°C	
Aspergillus brasiliensis	ATCC® 16404			
Saccharomyces cerevisiae	ATCC® 9763			
Trichophyton mentagrophytes	ATCC® 9533			
Escherichia coli	ATCC® 8739	10^4-10^6 CFU		Inhibition

Please refer to the actual batch related Certificate of Analysis (CoA).

WARNING AND PRECAUTIONS

For *in-vitro* diagnostic use (see product list). **For professional use only**. Operators must be trained and have certain experience in the laboratory methods. Please read the instructions carefully before using this product. Reliability of assay results cannot be guaranteed if there are any deviations from the instructions in this document.

Consult the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

DISPOSAL OF WASTE

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

BIBLIOGRAPHY

1. European Pharmacopoeia 9.0 (2017) - 2.6.12. Microbiological examination of non-sterile products: Microbial enumeration tests. 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms.
2. United States Pharmacopoeia 40 NF 35 (2017) - <61> Microbiological examination of non-sterile products: Microbial enumeration tests. <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
3. Japanese Pharmacopoeia XVII (2016) - 4.05. Microbial limit test I. Microbiological examination of non-sterile products: Total viable aerobic count. Microbial limit test II. Microbiological examination of non-sterile products: Test for specified microorganisms.
4. EN ISO 11133:2014. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
5. Wehr and Frank (2004) - Standard methods for the examination of dairy products, 17th ed. American Public Health Association, Washington, D.C.
6. Larone (1995) - Medically important fungi: a guide to identification, 3rd ed. American Society for Microbiology, Washington, D.C.
7. Sabouraud (1892) - Ann. Dermatol. Syphil. 3:1061.

The product is available in the various configurations listed below. There may be additional product ref. numbers as well. For an updated listing of available products, visit **liofilchem.com**

Product	Format	Packaging	Ref.
Sabouraud CAF (50 mg) Agar	Plate 90 mm	20 plates	10441 •
Sabouraud CAF (50 mg) Agar	Dehydrated medium	500 g	610625

• Not CE-IVD marked.

Table of Symbols

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

This IFU document and the SDS are available from the online Support Center:
liofilchem.com/ifu-sds

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CE IVD (see product list)