Sabouraud Dextrose Agar VEG

Medium for the cultivation and enumeration of yeasts and moulds, according to EN ISO 11133, USP/EP/JP and ISO 16212.

Instructions For Use
ENGLISH

DESCRIPTION

Sabouraud Dextrose Agar (SDA) VEG is a solid culture medium used for cultivation and isolation of yeasts and moulds from different materials.

This medium 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.

Its formula conforms to the recommendations of the harmonized method in the United States Pharmacopoeia (USP), European Pharmacopoeia (EP) and Japanese Pharmacopoeia (JP) for the microbiological examination of non sterile products.

Following ISO 16212, SDA is also used for determining the fungal content of cosmetics.

Sabouraud Dextrose Agar VEG is free of any ingredient of animal origin. That eliminates regulatory issues and concerns related to use of animal-derived products.

TYPICAL FORMULA*	(g/l)
Peptone	10.0
Dextrose	40.0
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

Peptones provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Dextrose is an energy and carbon source. Agar is the solidifying agent. The high concentration of dextrose and the acidic pH of the medium permit selectivity of fungi.

PREPARATION

Dehydrated medium: Suspend 65.0 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 121°C for 15 minutes.

TEST PROCEDURE

Inoculate the plates with sample material following the method used.

Incubate at 20-25°C for 5-7 days or at 30-35°C for 24-48 hours.

INTERPRETING RESULTS

Examine for fungal colonies exhibiting typical microscopic and colonial morphology. Biochemical tests may be required for final identification.

The total combined yeasts/moulds count (TYMC) is considered to be equal to the number of CFU found per each plate. When an acceptable criterion for microbiological quality is prescribed it is interpreted as follows:

- 10^1 CFU: maximum acceptable count = 20;
- 10^2 CFU: maximum acceptable count = 200;
- 10^3 CFU: maximum acceptable count = 2000, and so forth.

In procedures intended for environmental and personnel hygiene monitoring, observe daily for the formation of colonies.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store the prepared medium at 2-8°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.

QUALITY CONTROL

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

Appearance of Prepared Medium: Slightly opalescent, light amber.

Expected Cultural Response:

Productivity according to EN ISO 11133

Control strain		Inoculum	Incubation	Specification
Saccharomyces cerevisiae	WDCM 00058 (ATCC 9763; NCTC 10716)	50-100 CFU	5 days 25 ± 1°C	Good growth ($P_R \geq 0.7$)
Aspergillus brasiliensis	WDCM 00053 (ATCC 16404; NCPF 2275)			

Growth promotion according to the harmonized method of USP, EP and JP

Control strain		Inoculum	Incubation	Specification
Candida albicans	WDCM 00054 (ATCC 10231; NCPF 3179)	≤ 100 CFU	≤ 5 days 20-25°C	Good growth, 50-200% recovery
Aspergillus brasiliensis	WDCM 00053 (ATCC 16404; NCPF 2275)			
Candida albicans	WDCM 00054 (ATCC 10231; NCPF 3179)		24-48 h 30-35°C	

A productivity ratio (P_R) of 0.7 is equivalent to a recovery rate of 70%.

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

WARNING AND PRECAUTIONS

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

See the references at the end of this document.

TABLE OF SYMBOLS

See the table of symbols at the end of this document.

Product	Format	Packaging	Ref.
Sabouraud Dextrose Agar VEG	Powder	500 g	610706

There may be additional product ref. numbers as well. For an updated listing of available products, visit **liofilchem.com**

This IFU document and the SDS are available from the online Support Center:

liofilchem.com/ifu-sds

BIBLIOGRAPHY

1. European Pharmacopoeia 10th Ed. (2020): 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 42 NF 37 (2019): <61> Microbiological examination of non-sterile products: Microbial enumeration tests; <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
3. Japanese Pharmacopoeia 17th Ed. (2017) 4.05 Microbial Limit Test: I. Microbiological examination of non-sterile products: Total viable aerobic count; II. Microbiological examination of non-sterile products: Test for specified products.
4. EN ISO 11133:2014+Amd1:2018. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
5. ISO 16212:2017. Cosmetics – Microbiology – Enumeration of yeast and mould.
6. Sabouraud, R. (1892) Ann. Dermatol. Syphilol. 3:1061.

TABLE OF SYMBOLS

LOT	Batch code
REF	Catalogue number
	Manufacturer
	Use by
	Fragile, handle with care
	Temperature limitation
Σ	Contains sufficient for <n> tests
	Consult Instruction For Use
	Do not reuse
	Keep away from light

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