



Sabouraud Dextrose Agar + Neutralizing

Solid medium for detection of fungi in environmental and personnel monitoring with inactivation of disinfectants.

DESCRIPTION

Sabouraud Dextrose Agar + Neutralizing is a non selective isolation medium used for the determination of total aerobic viable count of yeasts and moulds in surfaces testing and air microbial control by dynamic sampling technique.

The composition of the base culture medium complies with the recommendations of the current United States, European and Japanese Pharmacopeia. In addition, neutralizing agents are included in the medium to inactivate residual disinfectants allowing detection of microorganisms surviving after treatment of surface and material with antiseptics.

These lockable, gamma-irradiated, triple-bagged plates are particularly suitable for use in restricted areas like isolators and clean rooms.

Features:

- 10 contact plates are packed in three transparent plastic bags;
- A label including a data matrix barcode identifies each plate;
- An irradiation dose of 9-20 kGy is used to sterilize the product in its final packaging, which includes the cardboard box;
- The locking lid allows for an easy locking of plates after sampling, adding security during transportation and incubation.

TYPICAL FORMULA

	(g/l)
Pancreatic Digest of Casein	5.0
Peptic Digest of Animal Tissue	5.0
Dextrose	40.0
Agar	15.0
Histidine	1.0
Lecithin	0.7
Polysorbate 80	5.0
Sodium Thiosulfate	0.5
Final pH 5.6 ± 0.2 at 25°C	

METHOD PRINCIPLE

Pancreatic digest of casein and peptic digest of animal tissue provide amino acids, nitrogen, carbon, minerals, vitamins and other nutrients which support the growth of microorganism. Dextrose is an energy source. Agar is the solidifying agent. The high concentration of dextrose and the acidic pH of the medium permit selectivity of fungi. Histidine inactivates aldehydes. Lecithin neutralizes quaternary ammonium compounds. Polysorbate 80 (Tween 80) is effective against phenolic compounds and mercurial derivatives. Sodium thiosulfate neutralizes halogen compounds.

TEST PROCEDURE

Active Air Monitoring

Insert the plate without the lid in an air sampler and draw a volume of air from 100 to 1000 liters.

Surfaces and Personnel Hygiene Monitoring

Gently press the agar surface on the test surface for some seconds with a steady pressure. Do not move laterally the plate. Residues of the medium should be subsequently removed from the area tested.

After sampling return the lid and lock the plate. A click sound confirms lid is locked.

For the total combined yeasts/moulds (TYMC) count, incubate at 20-25°C for 5-7 days. Other incubation conditions may be chosen but should be validated under the specific protocol used for environmental monitoring testing.

INTERPRETING RESULTS

Observe for the formation of fungal colonies exhibiting typical microscopic and colonial morphology. Record the number of CFU per plate. Colonies should be further isolated and identified with appropriate procedures.

APPEARANCE

Slightly opalescent, light amber.

STORAGE

Store 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

9 months.

QUALITY CONTROL

The plates are inoculated with the microbial strains indicated in the QC table.

Inoculum for productivity: ≤100 CFU.

Incubation conditions: 22.5 ± 2.5°C for up to 5 days.

QC Table.

Microorganism		Specification
<i>Candida albicans</i>	ATCC® 10231	Good growth, 50-200% recovery
<i>Candida albicans</i> + 50 µl Aerodesin 2000	ATCC® 10231	Good growth, 50-200% recovery
<i>Aspergillus brasiliensis</i>	ATCC® 16404	Good growth, 50-200% recovery
<i>Saccharomyces cerevisiae</i>	ATCC® 9763	Good growth, 50-200% recovery

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 professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

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

BIBLIOGRAPHY

1. USP 41 NF 36 (2018): <61> Microbiological Examination of Non-Sterile Products: Microbial Enumeration Tests; <1116> Microbiological Control and Monitoring of Aseptic Processing Environments.
2. EP 9.0 (2016): 2.6.12. Microbial examination of non-sterile products (total viable aerobic count).
3. JP 16th edition (2011): 4.05 Microbial Limit Test.
4. EU GMP Medicinal Products for Human and Veterinary use (2008): Annex1 Manufacture of Sterile Medicinal Products.
5. FDA Guidance for Industry (2004): Sterile Drug Products Produced by Aseptic Processing - Current Good Manufacturing Practice.
6. Swanson, K.J., F.F. Busta, E.H. Peterson, and M.G. Johnson (1992). Colony Count Methods, p. 75-95.

PRESENTATION	Format	Packaging	Ref.
Sabouraud Dextrose Agar + Neutralizing	Lockable Contact Plate (triple-bagged, gamma-irradiated)	20 plates	15204S

TABLE OF SYMBOLS

LOT Batch code	 Keep away from sunlight	 Manufacturer	 Use by	 Fragile, handle with care
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.com