

SABOURAUD DEXTROSE AGAR

Powdered and ready to use medium for
the isolation, cultivation and maintenance of yeasts and moulds

TYPICAL FORMULA (g/l)

Pancreatic Digest of Casein	5
Peptic Digest of Meat	5
Glucose	40
Agar	15

SABOURAUD DEXTROSE AGAR WITH CAF 50mg

Powdered and ready to use selective medium for
the isolation, cultivation and maintenance of yeasts and moulds

TYPICAL FORMULA (g/l)

Peptocomplex	10.00
Glucose	40.00
Chloramphenicol	0.05
Agar	15.00

SABOURAUD DEXTROSE AGAR WITH CAF 500mg

Powdered selective medium for the isolation of yeasts and moulds

TYPICAL FORMULA (g/l)

Peptocomplex	10.0
Glucose	40.0
Chloramphenicol	0.5
Agar	15.0

DIRECTIONS FOR POWDERED MEDIA

Suspend 65g of Sabouraud Dextrose Agar or Sabouraud Dextrose Agar CAF 50 or 65.5 g of Sabouraud Dextrose Agar CAF 500 in 1000ml of cold distilled water, heat to boiling with frequent agitation and sterilise by autoclaving at 121°C for 15 minutes. Do not overheat.

DIRECTIONS FOR READY TO USE MEDIUM IN FLASKS

Dissolve the contents of the bottle in a temperature controlled water batch (100°C). Cool to 45-50°C, mix well and distribute into sterile Petri dishes

SDA	final pH 5.6 ± 0.2
SDA CAF 50:	final pH 5.6 ± 0.2
SDA CAF 500:	final pH 5.6 ± 0.2

DESCRIPTION

Prepared according to Carller's modification of the original Sabouraud medium, Sabouraud Dextrose Agar is used for the isolation, cultivation and maintenance of pathogenic and saprophytic fungi. Sabouraud Dextrose Agar, supplemented with 50 mg/L or 500 mg/L of chloramphenicol, is used for the isolation of pathogenic and opportunistic fungi (*Aspergillus*, *Fusarium*, *Mucor*, *Rhizopus*, ecc.) from clinical specimens and for the isolation of ciclohexymide susceptible fungi (*Allescheria boydii* and *Cryptococcus neoformans*).

Sabouraud Dextrose Agar may be used as basal medium for the preparation of Pagano Levin Agar, with TTC 0.1mg/ml and gentamicin, 50µg/ml.

TECHNIQUE

Inoculate the specimen by streaking the surface of an agar plate or the slope of the medium in a tube in duplicate. Incubate one medium at 22-25°C and the second at 35°C for 5-30 days. Do not seal the

plates. Identification of fungi is performed by observing various aspects of colony morphology, characteristic microscopic structures, rate of growth, media which support the organisms growth and source of specimen. Yeasts are identified by various biochemical tests. Refer to appropriate microbiological handbook for the details of mycological examination of specimens.

USER QUALITY ASSURANCE (25°C up to 7 days)

Productivity control

C.albicans ATCC 10231 **: growth*A.niger* ATCC 16404 **: growth*T.mentagrophytes* ATCC 9533*: growth

Selectivity control (for SDA media with chloramphenicol)

E.coli ATCC 25922: inhibited

*NCCLS M22-A2 recommended strains.

EP 3rd ed. recommended strainsSTORAGE**

Dehydrated media: 10-30°C

User prepared plates: 1 month at 2-8°C

User prepared flasks: 3 months at 2-8°C

REFERENCES

- APHA (1963) - Diagnostic Procedures and Reagents.
- Booth, C. (1971) - Methods in Microbiology Vol. 4. London: Academic Press.
- Haley, L.D., Trandel, J., and M.B. Coyle (1980) - Practical methods for culture and identification of fungi in the clinical microbiological laboratory. Cumitech n. 11, ASM, Washington, D.C.
- Murray, P.R. et al. (1999) Manual of Clinical Microbiology 7th ed. American Society for Microbiology, Washington D.C.
- NCCLS document M22-A2, 1996. Quality Assurance for Commercially prepared Microbiological Culture Media-2nd ed.; Approved Standard.
- Pagano, J. Levin, J.G. and W. Trejo (1957-58) - Antibiotic Annual, **137-143**.
- Yamane, N. and Y. Saitoh (1985) - Isolation and detection of multiple yeasts from a single clinical sample by use of Pagano Levin Agar Medium; J. Clin. Microbiol. **21**, 276.

Packaging

4020052	Sabouraud Dextrose Agar	500g (7.7 l)
4020054	Sabouraud Dextrose Agar	5kg (77 l)
542005	Sabouraud Dextrose Agar	20 ready to use plates
5120052	Sabouraud Dextrose Agar	6 x 100ml ready to use flasks
552005	Sabouraud Dextrose Agar	20 ready to use slanted tubes
4020062	Sabouraud Dextrose Agar with CAF 50	500g (7.7 l)
4020064	Sabouraud Dextrose Agar with CAF 50	5kg (76 l)
542006	Sabouraud Dextrose Agar with CAF 50	20 ready to use plates
5120062	Sabouraud Dextrose Agar with CAF 50	6 x 100 ml ready to use flasks
552006	Sabouraud Dextrose Agar with CAF 50	20 ready to use slanted tubes
4020072	Sabouraud Dextrose Agar with CAF 500	500g (7.6 l)