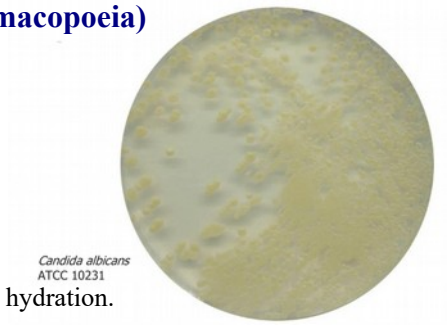
FT-A2WUT0

Sabouraud Dextrose Agar

European Pharmacopoeia – For cultivation of yeast and molds

Product Description

Name :	**Sabouraud Dextrose Agar (European Pharmacopoeia)**	
Catalog Number :	A2WUT0, 500 g	
Formula in g/l :	Dextrose	40.00
	Bacterial Agar	15.00
	Mixture of peptic Digest of Animal Tissue and Pancreatic Digest of Casein (1:1)	10.00
Final pH:	**5,6 ± 0,2 at 25°C**	



Storage: 2-25°C. Once opened keep powdered medium closed to avoid hydration.

Directions for use

Preparation

Suspend 65 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Distribute and sterilize in autoclave at 118-121ºC for 15 minutes. AVOID OVEARHEATING as it facilitates the hydrolysis of the components and the medium remains soft. The prepared medium should be stored at 8-15°C. The color is amber, slightly opalescent.

The dehydrated medium should be homogeneous, free-flowing and beige in color. If there are any physical changes, discard the medium.

Use

SABOURAUD DEXTROSE AGAR can be used for cultivating yeasts, molds and aciduric microorganisms. It is used for cultivating pathogenic fungi, particularly those associated with skin infections. This medium is also used for determining the microbial and fungal content of cosmetics and for the mycological evaluation of food.

The formula is based on the European Pharmacopoeia. Dextrose is the fermentable carbohydrate providing carbon and energy. Peptone mixture provides nitrogen, vitamins, minerals and amino acids essential for growth. Bacteriological agar is the solidifying agent. The high dextrose concentration and acidic pH make this medium selective for fungi.

Georg et al. demonstrated that the basic agar fortified by three antibiotics considerably improves the isolation ofpathogenic fungi from heavily contaminated sources. To prepare a selective culture medium aseptically add the following for every liter of medium before use: 0.4 g Cycloheximide; 20 units Penicillin; 40 mg Streptomycin.

One can obtain a very rich Sabouraud medium by dissolving the medium in one liter of Heart Infusion (Cat. 1714).

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The European Pharmacopoeia recommends this medium in the Paragraph 2.6.12 Microbiological examination of non-sterile products: Microbial enumeration test. for promoting the growth of Candida albicans ATCC 10231 and Aspergillus brasiliensis ATCC 16404 to inoculate ≤ 100 CFU at 20-25ºC for ≤ 5 days.

The European Pharmacopoeia recommends in the Paragraph 2.6.13 "Microbiological examination of non – sterile products"

Test for specified microorganisms
Use Dextrose Sabouraud Agar for growth promotion. After incubation at 30-35ºC for 3-5 days in Dextrose Sabouraud Broth subculture on the plate of Dextrose Sabouraud Agar and incubate at 30-35ºC for 24-48 hours.

Interpretation
Growth of white colonies may indicate the presence of Candida albicans. This is confirmed by identification tests.
The product complies with the test if such colonies are not present or if the confirmatory identification tests are negative.

Microbiological test

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of 30ºC and observed after 3-7 days.

Microorganisms	Inoculum cfu / ml	Growth	Recovery Rate (%)
***Aspergillus brasiliensis* ATCC 16404	≤100	Good	≥ 70
**Candida albicans* ATCC 10231	≤100	Good	≥ 70
Escherichia coli ATCC 25922	≤100	Moderate-Good	≥ 70
Escherichia coli ATCC 8739	≤100	Moderate-Good	≥ 70
Lactobacillus casei ATCC 9595	≤100	Good	≥ 70
Saccharomyces cerevisiae ATCC 9763	≤100	Good	≥ 70

According European Pharmacopoeia 7.0

* Incubate at 30-35ºC for 24-48 hours. Total count ≤100 cfu/ml to incubate at 20-25ºC for ≤ 5 days
** Total count ≤100 cfu/ml to incubate at 20-25ºC for ≤ 5 days

References

- Sabouraud, Ann. Dermat and Syphilol 1892-3. Gerog J. Lab. CLin. Med. 67;355 1953
- Murray, P.R., E.J baron, M.A. Pfaller, E.C. Tenover, and R.H. YOLKEN (ed.) 1995. Manual of clinical microbiology, 6th ed. American Society for Microbiology, Washington, D.C
- Beuchat, L.R., J.E Corry, A.D King, Jr. and J.I Pitt (ed) 1986 Methods for the mycological examination of food. Plenum Pres, New York European Pharmacopoeia. 7.0

Ordering information

Catalog size quantities and prices may be found at http://www.interchim.com.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

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