



ANTIBIOTIC TEST MEDIUM

Dehydrated medium for stimulate mycelial growth and production of toxins by ascomycetes

TYPICAL FORMULA (g/L)

Yeast extract	3.0
Bacteriological peptone.....	3.0
Dextrose.....	2.0
Saccharose.....	30.0
Sodium nitrate.....	2.0
Potassium phosphate bibasic.....	1.0
Ferrous sulphate.....	0.01

Final pH 7.0 ± 0.2

DESCRIPTION

ANTIBIOTIC TEST MEDIUM is a dehydrated medium, that supplemented with 5% of Corn Steep liquor, stimulate mycelial growth and the production of toxins by ascomycetes.

PREPARATION

Suspend 41.0 g of powder in 1 litre of distilled or deionized water. Add 5% of Corn Steep Liquor. Heat to boiling until completely dissolved. Dispense into tubes or bottles, as appropriate. Sterilise in autoclave at 121°C for 15 minutes. Cool to 45-50°C.

TECHNIQUE

1. Inoculate each tubes or bottle with spores of ascomycetes.
2. Shake gently to disperse spores uniformly.
3. Incubate at 30+/-1°C up to 16 days¹.

INTERPRETATION OF RESULTS

Evaluate mycelial growth and toxins production.

STORAGE

The powder is very hygroscopic: store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.
Store prepared media at 2-8°C.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product must be used only by properly trained operators.

DISPOSAL of WASTE

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

REFERENCES

1. Harry W.Schoeder. Effect of Corn Steep Liquor on Mycelial Growth and Aflatoxin Production in *Aspergillus parasiticus*. Applied Microbiology. 1966. Vol.14, N°3.381-385.
2. S.Hara,D.I.Fennel and W.Hesseltine. Aflatoxin-producing Strains of *Aspergillus flavus* detected by Fluorescence of agar Medium under Ultraviolet Light. Applied Microbiology. 1974. Vol.27, N°6.1118-1123.
3. C.W.Hesseltine, O.L.Shotwell, J.J.Ellis, and R.D. Stubblefield. Aflatoxin Formation by *Aspergillus flavus*. Bacteriological revivis. 1966. Vol.30, N°4.795-805.
4. Jackson W.Foster, Edward O.Karow. Microbiological aspects of penicillin. VIII Penicillin from different Fungi. Research Laboratory, Merck & Co., Inc., Rahway, N.J.1944.



LIOFILCHEM Bacteriology Products

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PRODUCT SPECIFICATIONS

NAME
ANTIBIOTIC TEST MEDIUM

PRESENTATION
Dehydrated culture medium

STORAGE
10-30°C

PACKAGING

Code	Content	Packaging
610221	500 gr	500 gr of powder in plastic bottle
620221	100 gr	100 gr of powder in plastic bottle

pH OF THE MEDIUM
7.0 ± 0.2

USE

ANTIBIOTIC TEST MEDIUM is a dehydrated medium, that supplemented with 5% of Corn Steep Liquor, stimulate mycelial growth and the production of toxins by ascomycetes.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous.

Colour: white.

Prepared medium

Appearance: clear to very slightly opalescent.

Colour: colourless.

SHELF LIFE









4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 UFC/ml
Incubation conditions: 48-72 hours at 30 +/- 1°C, in aerobiosis

Microorganisms		Growth
<i>Aspergillus niger</i>	ATCC 16404	Good

TABLE of SYMBOLS

Symbol	Meanings
	Catalogue number
	Manufacturer
	Temperature limitation
	Contains sufficient for <n> tests
	Use by
	Batch code
	Do not reuse
	Consult accompanying documents



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