

()

Aspergillus flavus Link

*

(/ / : // :)

A. flavus

(*nit*)

nit

nit M % *nit 3* % *nit 1* %

% /

A. flavus

Aspergillus flavus :

(.)

(.)

A. flavus

(.)

A. flavus (.)

A. flavus

()

(Prototroph) .()

() .()

(VCGs)

VCG

A. flavus

)
(

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)

Aspergillus flavus .(

.()

A. flavus

(nitrate- nit
()

nonutilizing mutant)

AFIM

CZAPEK] ()

VCG

DOX Agar
(Rose bengal)

(Prototroph)

(auxotroph)

(Botran)

(Dichloran)

.()

[pH /

(/) () (/) %
/) ()
(/) ()
nit X *A. flavus*
nit 3 nit 1

nit M

nit

() The Genus *Aspergillus* *A. flavus*

() CMI IMI

()

nit

) MMC

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:

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pH /

()

%

PDA

KClO₃

pH

A.

flavus

A. flavus

) *nit X*

A. flavus

(

cm

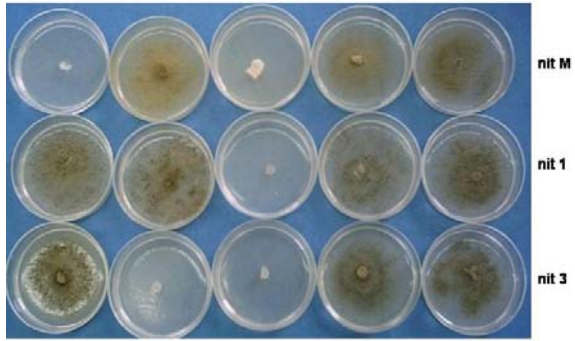
()

MMC

AF₄

nit

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تارتارات آمونیم اسید اوریک نیتراٹ نیتريت هيموزانتين
A. Flavus nit

nit

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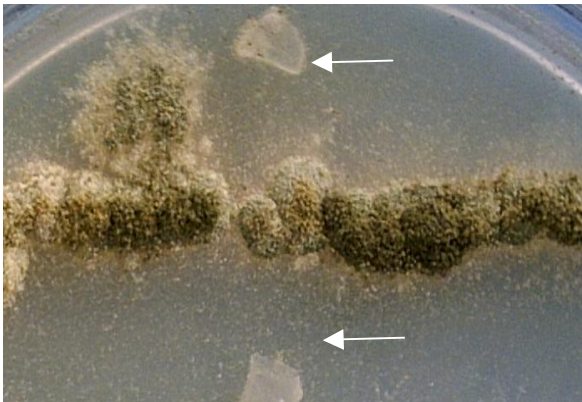
nit M

nit 3

nit 1

nit

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AF₃ AF₂ AF₁

AF₄

AF₁

AF₂

AF₃

AF₄

nit

A. Flavus

A. flavus

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A. flavus

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AF₁

AF₃

AF₂

... :

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VCG

nit

A. flavus

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(α

VCG

A. flavus

()

) *nit* L *nit* M

nit M

(*nit* 3 *nit* 1

%

%

nit M

A. flavus

%

()

A. flavus

nit

VCG

()

()

A. flavus

:

% / ()

()

AF₃

AF₄ AF₂

AF₁

% /

REFERENCES

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Magnaporthe grisea (Hebert) Barr

Aspergillus flavus

(VCGs)

Aspergillus

6. Anonymous. 1966. *Aspergillus flavus*. C. M. I. Descriptions of pathogenic fungi and bacteria No. 91.
7. Anonymous. 1995. *Aspergillus flavus*. Mycopathologia. 132 :43-44.
8. Anonymous. 1990. *Aspergillus parasiticus*. C. M. I. Descriptions of pathogenic fungi and bacteria No. 994.
9. Bayman, P. & P. J. Cotty. 1991. Improved media for selecting nitrate nonutilizing mutants in *Aspergillus flavus*. Mycologia. 83: 311-316.
10. Bayman, P. & P. J. Cotty. 1991. Vegetative compatibility and genetic diversity in the *Aspergillus flavus* population of a single field. Can. J. Bot. 69: 1707-1711.
11. Bayman, P. & P. J. Cotty. 1993. Genetic diversity in *Aspergillus flavus*: association with aflatoxin production and morphology. Can. J. Bot. 71: 23-31.
12. Bell, D. K. & J. L. Crawford. 1967. A botran-amended medium for isolating *Aspergillus flavus* from peanuts and soil. Phytopathology. 57: 939-941.
13. Cotty, P. J. 1989. Vivulence and cultural characteristics of two *Aspergillus flavus* strains pathogenic on cotton. Phytopathology. 79: 808-814

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14. McAlpin, C. E. & B. Mannarelli. 1995. Construction and characterization of a DNA probe for distinguishing strains of *Aspergillus flavus*. Applied and Environmental Microbiology 61: 1068-1072.
 15. McAlpin, C. E. & D. T. Wicklow. 2002. DNA fingerprinting analysis of vegetative compatibility groups in *Aspergillus flavus* from a peanut field in Georgia. Plant Disease. 86: 254-258.
 16. Novas, M. V. & D. Cabral. 2002. Association of mycotoxin and sclerotia production with compatibility groups in *Aspergillus flavus* from peanut in Argentina. Plant Disease. 86: 215-219.
 17. Papa, K. E. 1986. Heterokaryon incompatibility in *Aspergillus flavus*. Mycologia. 78: 98-101.
 18. Puhalla, J. E. 1985. Classification of strains of *Fusarium oxysporum* on the basis of vegetative compatibility. Can. J. Bot. 63: 179-183.
 19. Raper, K. B. & D. I. Fennell. 1965. The genus *Aspergillus*. The Williams & Wilkins Company, USA. 686p.

