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Effects of anti-fungal agents on growth of Neurospora

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Abstract

Effects of anti-fungal agents on Neurospora growth

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Conidia, $>10 \times 10^6$, of the *colonial temperature-sensitive strain* cot-1 (C102t) a were added to 100 ml flasks containing 30 ml of liquid Vogel's medium supplemented with one of a variety of anti-fungal drugs. There cultures, together with control cultures containing no *anti-fungal* agent, were incubated at 25° C, *initially in a rotary shaker* for 30 *hours* and subsequently as static cultures for up to nine days. Mycelia were harvested at 30 hours and at 9 days, dried at 60° C and weighed. Results are show" as per cent inhibition of dry weight caused by the drugs, as compared with the weights obtained from the control cultures. - - - Department of Genetics, University of Aberdeen, Scotland.

TABLE

Compound	Per cent inhibition at 30 hours	Drug concentration	Per cent inhibition at 9 days	Drug concentration
Acridine Orange	100	5	100	25
Actinomycin D	73	5	--	--
Bacitracin	55	500	--	--
Barbi tone	0	500	15	500
Basic Fuchsin	100	10	98	20
Benzalkonium chloride	100	0.5	100	2
Caffeine	97	2 mg/ml	86	2 mg/ml
Cetylpyridinium chloride	100	0.5	100	0.5
Cetyltrimethyl ammonium bromide	100	0.5	100	1
Chloramphenicol	—	—	42	3 mg/ml
Chloral hydrate	—	--	20	500
Chloroquine	56	500	16	500
Crystal violet	100	IO	100	10
Cycloserine	95	100	--	—
Dequalinium chloride	100	0.5	99.6	2
Dimethyl sulphate	100	500	100	500
EDTA	—	—	97	3 mg/ml
Emetine	0	500	0	500
Erythromycin	0	1 mg/ml	9	3 mg/ml
Ethidium bromide	100	45	98	100
B-Ethoxy caffeine	—	—	100	500
Gentamycin	36	500	--	--
Gramicidi" J	100	0.5	100	3.5
8-Hydroxyquinoline	100	0.5	100	0.5
4-Hydroxyquinoline	86	500	--	--
Hydroxyurea	40	500	31	500
Iodoacetate	91	500	0	500
Malachite green	100	5	100	5
Mepacrine sulphate	100	0.5	100	0.5
Neomycin sulphate	35	500	0	500
Nystatin	100	0.5	100	1
Polymyxin B sulphate	100	25	100	175
Polypropylene glycol 425	0	500	0	500
Propylene glycol	70	3 %	34	5 %
Quinacrine HCl	92	500	22	500
Rifampici"	0	1 mg/ml	0	1 mg/ml
Sodium Azide	100	0.5	98	0.5
Triton	0	500	0	5 mg/ml
Trypan blue	14	500	0	500
Tyrocidine HCl	—	--	100	4.5

Unless otherwise stated all concentrations ore in micrograms per ml.