

**QUARTERMASTER CULTURE COLLECTION**

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The fundamental nature of the fungal and bacterial deterioration of materiel constituted one of the first pioneering problems with which the Quartermaster Research and Development Laboratories were directly concerned. Today, it continues to be one of our emphasized areas of investigational activity.

Through the far-sighted research vision of General Georges F. Doriot and Dr. Edwin L. Gustus, former Chief and former Technical Director respectively, of the Military Planning Division of the Office of The Quartermaster General, Professor William H. Weston, Jr. of Harvard University was invited in 1943 to propose, implement and direct a basic approach to the prevention of deterioration of cotton textiles. This program was executed to complement the applied empirical research program already under way.

Professor Weston's long-range plan evolved around three phases. The first two were a determination of the causal organisms and a study of their mechanism of action. Based on the information garnered from these two phases, pioneering work was initiated on the third phase, a development of new and improved methods of prevention. This approach set the pattern for subsequent Quartermaster research on the biological deterioration not only of cotton but of other military items, such as leather, wool, paper, and plastic products.

A monograph (35) painting an integrated picture of the microbiological attack on cellulose and on cotton textiles is nearing completion. Other publications and reports listed in the appendix provide a general review of our activities in the biological deterioration of materiel. The present paper by Reese, Levinson, Downing, and White treats in some detail one phase of our pertinent investigational interests. In it are listed all of the cultures being maintained in our collection of fungi, bacteria, actinomycetes and yeasts isolated by our own and by collaborating laboratories from exposed and deteriorating materiel. With the help of many specialists we have conscientiously followed the spirit of Professor Weston in guarding against ill-defined and taxonomic errors, unfortunately frequent in the literature, which have vitiated many of the results of microbiological research.

Contributors to this culture collection were many, selfless and capable. The signal efforts of Professor Weston were supplemented by the late Dr. D. H. Linder, Dr. W. L. White, Dr. K. B. Raper, Dr. N. R. Smith, Dr. G. W. Martin and others who provided the keen judgment which estab-



lished the sound taxonomic position of the collection. Drs. E. S. Barghoorn, G. F. Weber, H. W. Reuszer, and W. G. Hutchinson have been responsible for most of the isolation and field observations. The U. S. Army Chemical Corps and the U. S. National Defense Research Committee have been most generous in requesting the amalgamation of their respective collections with our own. The resultant collection is the most complete and dependable one for experimental microbiology associated with deterioration of materiel. We wish to acknowledge the valuable and unstinting contributions of these and the hundreds of others who have participated in the joint effort. We wish particularly to point out the expeditious coordination by Mr. Richard Wells, a member of Dr. S. J. Kennedy's Quartermaster team of textile experts. It was mainly through Mr. Wells' effort that the many laboratories were able to operate effectively with a minimum of administrative synapses during the hectic war days.

It has been the established policy of our laboratories to share our scientific tools with those of our colleagues collaborating with United States Departments of the Army, Navy and Air Force. In the case of the culture collection, this has been a *de facto* service. Thousands of cultures have been furnished during the past years to laboratories in this country and those of our allies for use in research and procurement testing. The Quartermaster Corps joins me in extending an invitation to scientific collaborators of the U. S. National Military Establishment for continued use of our culture collection.

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#### GENERAL CONSIDERATIONS

This report summarizes that phase of the Tropical Deterioration program dealing with the isolation and determination of microorganisms involved in the deterioration of materiel. This program was sponsored by the U. S. National Defense Research Committee and The Office of the Quartermaster General. The present authors wish to emphasize the fact that their role has been primarily the collation of loose ends. In doing so, the authors have reduced the collection of actively growing cultures to a size (830 cultures) which, it was felt, would not impose too great a burden on the present staff. The reduction was made by eliminating replications. For instance, of 30 *Aspergillus fumigatus* isolates, five were selected for maintenance in the active collection. Several criteria were used as a basis for the selections:

- (a) Frequency with which the isolate has been used in studies carried on here and elsewhere
- (b) Morphological or physiological variation within the species
- (c) Authenticity of identification
- (d) Nature of the substratum from which the organism was isolated
- (e) Locality of isolation



The collection contains a wide variety of organisms, and sufficient numbers within a species to exhibit whatever variation exists. None of the original isolates, however, was discarded. Those not actively maintained on agar have been lyophilized, or kept under mineral oil. In the desiccated state most of these will remain viable for several years, and will be available for future study.

This is a collection of microorganisms of tropical and subtropical origin. The isolations from deteriorating materiel were made in Florida and in Panama at the site of the exposure tests, and at the Jeffersonville and Philadelphia Quartermaster Depots from samples carefully wrapped and sent in from the South Pacific and from Asiatic regions. All samples were carefully unwrapped in a sterile room and precautions taken to prevent contamination by the local air borne flora. Sterile instruments were used to tease out fibers from decomposing areas. The fibers were then plated out on various media. In Philadelphia, the following substrata were used:

- (a) cellulose dextrin agar,
- (b) nutrient agar,
- (c) potato dextrose agar,
- (d) acidified potato dextrose agar, and
- (e) filter paper strips in nutrient salts solution.

The Jeffersonville laboratory used an equally wide, but different, set of conditions, the favorite medium there being grass agar. Transfers were made from the incubated plates as soon as growth was visible. Isolated fungi were maintained on potato dextrose agar and bacteria on Difco nutrient agar. The method of isolation used in Panama was similar to that described above, but in most cases potato dextrose agar was the only medium used. In Florida, and occasionally in Panama, the techniques included washing of samples followed by plating out.

The type of samples examined included cotton and wool fabrics, paper, leather, and plastic. Since these are complex entities, the isolated organism may have been growing on any one of the constituent compounds. From the isolation data alone, it is impossible to say that the isolates from cotton were degrading cellulose, and not starch, waxes, or other chemical compounds in the cloth. For many of the isolates, data have been gathered relative to their ability to attack cellulose (47) and wool\* (49) in pure culture. If an isolate from decomposing cotton, for example, were found capable of attacking cellulose, the organism might well be considered the agent active in the field.

Investigators concerned with protecting materiel against microbial attack should know which organisms are most likely to be encountered. The data in the various reports — and particularly that of Barghoorn — have been summarized below (table 1). It is apparent that most of the organisms are of wide occurrence, and that the same species are found in Florida, in Panama and in the South Pacific area. Even the frequency with which many species were isolated is similar for the three areas (*Aspergillus versicolor* group, *Trichoderma viride*, *Penicillium citrinum*). There are,



TABLE 1. THE MOST FREQUENT ISOLATES OF QM CULTURE COLLECTION  
ARRANGED ACCORDING TO FREQUENCY

Southwest Pacific			Panama			Florida		
Organism	% of iso- lates		Organism	% of iso- lates		Organism	% of iso- lates	
<i>Aspergillus niger</i> group	5.8		<i>Trichoderma viride</i> **	11.1		<i>Penicillium luteum</i> series *	5.4	
<i>Memnoniella echinata</i> **	4.4		<i>Penicillium citrinum</i>	8.1		<i>Penicillium funiculosum</i> series	5.1	
<i>Aspergillus versicolor</i> group	4.4		<i>Botryodiplodia theobromae</i>	5.5		<i>Penicillium citrinum</i>	4.6	
<i>Chaetomium globosum</i> **	4.0		<i>Pullularia pullulans</i>	4.6		<i>Aspergillus versicolor</i> group	4.3	
<i>Trichoderma viride</i> **	3.7		<i>Aspergillus versicolor</i> group	3.2		<i>Aspergillus niger</i> group	3.6	
<i>Aspergillus flavus-oryzae</i> group	3.6		<i>Fusarium solani</i> *	3.0		<i>Aspergillus flavus-oryzae</i> group	3.5	
<i>Penicillium citrinum</i>	3.1		<i>Fusarium moniliforme</i> **	3.0		<i>Chaetomium globosum</i> **	3.5	
<i>Aspergillus nidulans</i> group	2.4		<i>Pestalotia virgatula</i> *	1.8		<i>Trichoderma viride</i> **	3.4	
<i>Botryodiplodia theobromae</i>	2.1		<i>Fusarium javanicum</i> **	1.6		<i>Paecilomyces varioti</i>	1.9	
<i>Aspergillus terreus</i> **	2.0		<i>Gliocladium roseum</i> *	1.6		<i>Fusarium solani</i> *	1.6	
<i>Chaetomium funicolum</i> **	1.8		<i>Fusarium diversisporum</i>	1.3		<i>Aspergillus terreus</i> **	1.4	
<i>Cladosporium herbarum</i> *	1.5		<i>Aspergillus niger</i> group	1.1		<i>Penicillium chrysogenum</i> series	1.4	
<i>Pullularia pullulans</i>	1.5		<i>Phialophora lignicola</i>	1.1		<i>Cylindrocephalum aureum</i>	1.4	
<i>Aspergillus ustus</i>	1.5		<i>Fusarium semitectum</i> *	1.0		<i>Fusarium moniliforme</i> **	0.7	
<i>Aspergillus fumigatus</i> **	1.4		<i>Pestalotia copernica</i>	0.9		<i>Pullularia pullulans</i>	0.4	
<i>Aspergillus tamarii</i>	1.3		<i>Paecilomyces varioti</i>	0.8		<i>Gliocladium roseum</i> *	0.4	
<i>Thielavia sepedonium</i> **	1.3		<i>Curvularia lunata</i> **	0.7		<i>Curvularia lunata</i> **	0.4	
<i>Phoma terrestris</i> **	1.1		<i>Penicillium luteum</i> series *	0.5		<i>Memnoniella echinata</i> **	0.3	
<i>Syncephalastrum racemosum</i>	1.0		<i>Aspergillus flavus-oryzae</i> group	0.4		<i>Pestalotia virgatula</i>	0.2	
<i>Paecilomyces varioti</i>	0.9		<i>Memnoniella echinata</i> **	0.3		<i>Phialophora lignicola</i>	0.2	

\* Cellulolytic — less than 50% loss in tensile strength of 3.3 oz. cotton sheeting in two weeks.

\*\* Strongly cellulolytic — 50–100% loss in tensile strength of 3.3 oz. cotton sheeting in two weeks.



on the contrary, some differences in the frequency of occurrence of a few species. *Memnoniella echinata*, the second most common isolate from S. W. Pacific samples, is found also in Florida and Panama, but is much less often isolated. *Pullularia pullulans*, common in Panama, is less frequent in the other two zones. *Botryodiplodia theobromae*, third in frequency in Panama, and ninth in S. W. Pacific, does not appear among the Florida collections. Other points of similarity and of divergence are obtainable by an examination of the table. In any case, if one were to become familiar with but 25 fungi, he would be able to recognize about 50 per cent of the isolates made from deteriorating materials such as those listed above. More detailed information on frequency is available by careful examination of the catalogue.

For an intelligent approach to mildew control, the part played by each of these common organisms should be determined. Our present results cover only the ability of the organisms to attack cellulose in pure culture. This information has been incorporated into table 1, one asterisk denoting weak, two asterisks strong, cellulolytic activity. Since only one half of the organisms listed are capable of growth on cellulose, the others are either growing at the expense of some other component of the fabric, or are air borne contaminants. The presence of sizing would be sufficient to account for development of most of the other fungi, since starch is readily utilized by very many microorganisms. It is interesting to note the absence from the Panama list of *Chaetomium globosum*, a fungus commonly used in fungicide testing.

A note of caution should be inserted relative to the weight to be given the above data. Much effort has been expended by our staff in examining fabrics undergoing decomposition for evidence of actual *fruiting* of the fungus on the fabric. White (52) has particularly noted the frequent occurrence of *Memnoniella echinata* in the tropics, and of *Stachybotrys atra* in temperate climes. We have not seen fruiting structures of *Trichoderma viride*, *Penicillium* or *Aspergillus*. It may be that the latter organisms do not grow on the cloth, but are isolated with great frequency only because their air-borne spores are abundant on all substrata in that vicinity. On the other hand, it may well be that the hyaline conidiophores of *Trichoderma*, *Aspergillus* and *Penicillium* rapidly disappear, whereas the colored conidiophores of *Memnoniella* and *Stachybotrys* are more persistent. The black aspect of the latter also makes them more obvious.

The data on frequency of bacterial species are much more limited. Only information relative to the S. W. Pacific samples is available. Slightly more than 50 per cent of the bacteria have been identified. The genus *Bacillus* was segregated and the isolates identified by Dr. N. R. Smith (40). This genus accounts for 40 per cent of all bacterial isolates, *Bacillus cereus* and *Bacillus megatherium* being the most common. None of the isolated members of the genus *Bacillus* attacks cellulose, but the majority of them can degrade autoclaved wool. The Actinomycetes make up only 5 per cent of the total bacterial isolates. A few of these are cellulolytic. The unidenti-



fied bacteria, chiefly gram negative non-cellulolytic rods, make up roughly 50 per cent. The cellulose decomposing schizomycetes, bacteria and Actinomycetes, are relatively few in number accounting for only 3 per cent of the total isolates.

For most of the organisms in our collection, relatively few experimental data are available. On the other hand, some have been the subjects of detailed study. On the basis of the knowledge accumulated, it is possible to suggest various organisms for studies dealing with various substrata.

(a) *Electrical insulation*: Members of the *Aspergillus glaucus* group and particularly *Aspergillus repens* (QM 360, 361), frequently develop well on insulation (E. A. Weaver). It has been found that these organisms can withstand high osmotic concentrations in the substratum, and will develop under conditions in which the relative humidity is as low as thirty per cent. Some strains fail to grow on agar unless the osmotic concentration is increased considerably above that found in the usual media.

(b) *Paints*: A few fungi appear to grow on and to blemish painted surfaces. Among the most common are:

1. *Pullularia pullulans* (QM 279c)
2. *Cladosporium herbarum* (QM 489)

(c) *Nylon*: To our knowledge the only organism isolated from nylon is *Tritirachium roseum* (QM 494) received from Wright Field. It is quite possible that growth here was on the plasticizer or on contaminating organic matter, and not on the nylon itself. W. D. Gray (4) of the Jeffersonville Depot tested 101 microorganisms of various genera for their ability to grow on nylon (Type 2, duPont). Six isolates were claimed to be able to use nylon as a nitrogen source: *Botryodiplodia* sp. (2) (QM 603), *Monascus* sp., *Trichothecium* sp., *Spegazzinia tessarthra* (QM 840), *Blennoria* sp. (QM 590). None was able to use nylon as a carbon source.

(d) *Wool*: As has been pointed out (49), few of the fungi, except the dermatophytes, are capable of attacking *non-autoclaved* wool. Two such non-pathogenic organisms are *Myrothecium verrucaria* (QM 460) and *Actinomyces* sp. (QM B1477). The dermatophytes studied most completely in our laboratories have been *Microsporum gypseum* (QM 196), and *Trichophyton mentagrophytes* (QM 253). It cannot be stated too emphatically that such organisms should be handled only by personnel familiar with the pathogenicity of these fungi. Many additional microorganisms can grow on *autoclaved* wool. Those most active in our tests include:

- Bacillus megatherium* (QM B1193)
- Bacillus cereus* (QM B476)
- Aspergillus flavus* (QM 70a)
- Aspergillus terreus* (QM 82j)
- Alternaria tenuis* (QM 26a)
- Fusarium moniliforme* (QM 427)



(e) *Cellulose*: Many microorganisms can degrade cellulose. Some of the more active representatives of the different groups are indicated below:

1. *Myrothecium verrucaria* (QM 460), one of the most active of cellulolytic microorganisms, yet rarely isolated from exposed cotton fabrics.

2. *Aspergillus fumigatus* (QM 45h) } These two fungi grow  
3. *Aspergillus terreus* (QM 82j) } actively at 40°C.

4. *Memnoniella echinata* (QM 1c), an active cellulose destroying fungus of frequent occurrence; requires biotin.

5. *Sporocytophaga myxococcoides* (QM B490), represents an active bacterial cellulose destroyer of frequent occurrence on buried samples. In experiments where filtrates are required, the mucilaginous substance produced often makes filtration difficult.

6. *Actinomyces* sp. (QM B814), an active cellulolytic organism representing the Actinomycetes.

7. *Trichoderma viride* (QM 6a), one of the most frequent cellulolytic isolates; of moderate cellulolytic activity.

8. *Cellvibrio vulgaris* (QM B4), an active cellulolytic bacterial organism isolated in the Canal Zone with a fair degree of frequency.

9. *Gliomastix convoluta* (QM 4c)

(f) *Fabrics*: The following organisms have been used widely in specifications set up by government agencies for procurement testing:

1. *Chaetomium globosum* (QM 459, USDA 1042.4)

2. *Myrothecium verrucaria* (QM 460, BPI 1334.2)

3. *Aspergillus niger* (QM 458, TC 215-4247)

4. *Aspergillus ustus* (QM 891, JQMD 272)

5. *Trichoderma viride* (QM 365, BPI T-1)

(g) *Leather*: Many organisms especially Aspergilli and Penicillia have been isolated from leather but the damage done is of a questionable nature.

1. *Aspergillus niger* (QM 458)

(h) *Plastics*: Dr. J. V. Harvey (21) has devised a method for evaluating fungus resistance of plastic coated fabrics which involves an estimate of the amount of visible growth, coupled with a measure of stiffness. An increase in stiffness accompanies fungal degradation. He recommends that the following test organism be used:

1. *Aspergillus versicolor* (QM 4g)

The reports on which the list is based are not generally available but may be obtained on loan from our laboratories. They are listed below under "Contractual Reports." A second group of reports is also appended. These are included because they deal with the microorganisms in the collection, and because they are pertinent to the subject of deterioration of materiel.

#### CONTRACTUAL REPORTS

1. **Barghoorn, E. S.** 1945. Studies of the deterioration of textiles under tropical conditions in the Canal Zone. OSRD Rept. 4807.



2. ———. 1946. Field studies of the deterioration of textiles under tropical conditions. Textile Series Rept. 24. Microbiological Series Rept. 4 of Res. & Dev., OQMG.
3. ———. 1948. Methods of isolation of fungi studied in QM Corps research in tropical deterioration. Rept. uncirculated.
4. **Gray, W. D.** 1945. History of the Biological Laboratory: Isolation and identification of fungi involved in tropical deterioration. Jeffersonville QM Depot — Rept. 303.
5. ———. 1946. Isolations of microorganisms from equipment forwarded from New Guinea. Jeffersonville QM Depot — Rept. 312.
6. ———. 1946. Isolations of microorganisms from equipment forwarded from Guadalcanal. Jeffersonville QM Depot — Rept. 323.
7. **Heimsch, C.** 1946. Tropical Deterioration of Equipment and Materials. OSRD Rept.
8. **Hutchinson, W. G., S. H. Davis, and J. A. Jump.** 1945. The tropical deterioration testing station at Barro Colorado Island. OSRD Rept. 5690.
9. **Linder, D. H.** 1946. Rept. at AAAS in St. Louis in March 1946.
10. **Reuszer, H. W.** 1945. Studies on the role of bacteria in the deterioration of cotton duck. OSRD Rept. 4806.
11. ———. 1945. Bacteria culture collection, OSRD Rept. 5682.
12. ———. 1946. Maintenance and identification of bacterial cultures isolated from material subjected to tropical deterioration. QMC Rept. 59.
13. **Smith, Nathan R., and Marie E. Wenzel.** 1947. Identification of spore-forming bacteria for the OQMG, Army Service Forces. Special Rept. 22. Div. of Soils, Fertilizers, & Irrigation. USDA. Jan. 6, 1947.
14. **Weston, W. H.** 1945. Tropical Fungus Culture Collection. OSRD Rept. 5681.
15. ———. 1949. Tropical deterioration: Preparation and preservation of fungus cultures of military importance. QMC Rept. 60.

#### RESEARCH AND PUBLISHED REPORTS

16. **Buell, C. B., and W. H. Weston.** 1947. Application of the mineral oil conservation method to maintaining collections of fungous cultures. QM General Lab. Topical Rept. 18, 1-3.
17. **Burkholder, P. R., and R. G. H. Siu.** 1947. Studies on degradation of cellulose and derivatives by microorganisms. QM General Lab. Topical Rept. 23, 1-22.
18. **Darby, R.** 1949. Resistance of some cellulose derivatives to the fungus *Myrothecium verrucaria*. QM General Lab. Res. Rept., Microbiological Series 10.
19. **Gray, W. D., and G. W. Martin.** 1946. Improvements on the soil burial testing method. QM General Lab. Topical Rept. 14, 1-17.
20. ———, and ———. 1947. The growth of fungi on asphalt-treated paper. *Mycologia* **39**(5): 587-601. 7 fig.
21. **Harvey, James V.** 1949. Testing the fungal resistance of plastic coated fabrics and plastic films. QM General Lab. Res. Rept., Microbiological Series 13.
22. **Levinson, H. S.** 1948. Bacteria involved in cellulose degradation. QM General Lab. Res. Rept., Microbiological Series 9.
23. ———, and **R. DiLello.** 1947. Assay for cellulolytic activity of cultures of bacteria in the QM Bacteria Collection. QM General Lab. Topical Rept. 25, 1-9.
24. **Mandels, G. R., and A. Norton.** 1948. Physiology of spores of the cellulolytic fungus *Myrothecium verrucaria*. QM General Lab. Res. Rept., Microbiological Series 11.
25. ———, and ———. 1949. Invertase of *Myrothecium verrucaria* spores. QM General Lab. Res. Rept., Microbiological Series 12.
26. ———, **W. H. Stahl, and H. S. Levinson.** 1948. Structural changes in wool degraded by the ringworm fungus *Microsporium gypseum* and other microorganisms. *Text. Res. Journ.* **18**(4): 224-231. 14 fig.



27. **Reese, E. T.** 1947. On the effect of aeration and nutrition on cellulose decomposition by certain bacteria. *J. Bact.* **53**(4): 389-400. 7 fig.
28. **Saunders, P., R. G. H. Siu, and R. N. Genest.** 1948. A cellulolytic enzyme preparation from *Myrothecium verrucaria*. *J. Biol. Chem.* **174**(2): 697-703. 1 fig.
29. **Sinden, J. W., A. J. Mix, and R. G. H. Siu.** 1946. Effect of pH on cellulolytic action of fungi. QM General Lab. Topical Rept. 10, 1-20.
30. ———, ———, and ———. 1946. Relation of temperature to decomposition of cellulose by fungi. QM General Lab. Topical Rept. 11, 1-2.
31. ———, ———, and ———. 1948. Effect of environment and mineral nutrition on cellulolytic activity of fungi. QM General Lab. Res. Rept., Microbiological Series 8.
32. **Siu, R. G. H.** 1946. Prevention of the microbiological degradation of cotton fabrics. QM General Lab. Topical Rept. 7, 1-7.
33. ———. 1946. Resistance of cyanoethylated cellulose and cotton fabric to microorganisms. QM General Lab. Topical Rept. 8, 1-6.
34. ———. 1947. Fundamental aspects of the prevention of the microbiological degradation of cotton textiles. *Amer. Dyestuff Repr.* **36**: 320-323.
35. ———. 1949-50. Microbial action on cellulose. (Book in preparation)
36. ———, **P. R. Saunders, R. Genest, and J. Dagney.** 1946. Effects of sugars on the cellulolytic activity of *Metarrhizium glutinosum*. QM General Lab. Topical Rept. 1, 1-10.
37. **Skoog, F., and M. Hopkins.** 1946. Biotin as a growth factor for *Memnoniella echinata*. QM General Lab. Topical Rept. 12, 1-7.
38. ———, and ———. 1946. A tube-culture method for studying growth rates of fungi. QM General Lab. Topical Rept. 9, 1-27.
39. ———, and ———. 1947. Sand culture method for fungi. QM General Lab. Topical Rept. 16, 1-13.
40. **Smith, N. R., H. S. Levinson and R. DiLello.** 1947. Identification and examination for cellulolytic activity of sporeforming bacteria in the QM Bacteria collection. QM General Lab. Topical Rept. 21, 1-16.
41. **Stahl, W. H., and B. McQue.** 1949. Microbiological degradation of wool. III. Digestion of normal and modified fibrillar proteins. QM General Lab. Res. Rept., Biochem. Series 3.
42. ———, ———, **G. R. Mandels, and R. G. H. Siu.** 1949. Studies on the microbiological degradation of wool. I. Sulfur metabolism. *Arch. Biochem.* **20**: 422-432.
43. **Wagner, R. P., H. H. Webber, and R. G. H. Siu.** 1947. The effect of ultra-violet light on cotton cellulose and its influence on subsequent degradation by microorganisms. *Arch. Biochem.* **12**(1): 35-50. 3 fig.
44. **White, W. L.** 1946. Mycological factors. *In* Report of the Army Air Forces Tropical Science Mission 25-46, 16 fig. (Wright Field, Ohio). 15 May. (Revised as QM General Lab. Topical Rept. 13: 1-44, 29 fig. 29 Nov.).
45. ———. 1946. Deterioration of Quartermaster fabrics in the Tropics. *Quartermaster Review* **26** (3): 63-64, 67, 4 figs. Nov.-Dec.
46. ———. 1948. Activities and interrelationships of microorganisms responsible for the deterioration of industrial and military materials. *Amer. Journ. Bot.* **35**: 804.
47. ———, **R. T. Darby, Gladys M. Stechert, and Kathryn Sanderson.** 1948. Assay of cellulolytic activity of molds isolated from fabrics and related items exposed in the tropics. *Mycologia* **40**(1): 38-84. 3 fig.
48. ———, and **Mary H. Downing.** 1947. The identity of "*Metarrhizium glutinosum*." *Mycologia* **39**(5): 546-555, 2 fig.
49. ———, **G. R. Mandels, and R. G. H. Siu.** 1950. Fungi in relation to the deterioration of woolen fabrics. *Mycologia* **42**: 199-223.



50. ———, and **R. G. H. Siu**. 1947. Resistance of resin-impregnated cotton fabrics to microorganisms. *Ind. Eng. Chem.* **39**: 1628–1632 1 fig.
51. ———, **R. G. H. Siu**, and **E. T. Reese**. 1948. The black *Aspergilli* in relation to cellulosic substrata. *Bul. Torrey Bot. Club* **75**(6): 604–632. 11 fig.
52. ———, **C. C. Yeager**, and **Helen Shotts**. 1949. History, distribution and economic significance of the cellulose-destroying fungus *Memnoniella echinata*. *Farlowia* **3**(4): 399–423, 5 pl., 1 text fig.

### THE LIST

A few notes are necessary for understanding the following catalogue of cultures.

1. *Penicillium*: It will be observed that no cultures of *Penicillium* have been selected at the present listing for the permanent collection. Isolates of all the species indicated are being maintained but sufficient data are not yet available on which a wise selection can be made. It is expected that this group will be carefully examined during the next year.

2. *Arrangement*: The fungi are placed first, followed by the bacteria including actinomycetes and yeasts. The order is alphabetically by genus and species.

3. *Frequency*: The number of times each species has been isolated is placed in parenthesis after the species name. A "(0)" indicates that the organism was not isolated here, but reached us from some other source.

4. *Cultures on agar*: These are listed by QM number under the species. Bacterial numbers are preceded by a "B," as "QM B12."

5. *Activity*: C = cellulose; W = wool; + = active in reducing tensile strength of cloth; — = inactive. Cellulose activities are based on loss in tensile strength of grey cotton duck. The wool has been autoclaved, and is much more susceptible to microbial attack than the natural product.

6. *Identifications*: The names of those who have identified the cultures are listed. Many of the Jeffersonville and Philadelphia cultures included in the list were named by individuals in the respective laboratories.

7. *Substrate and locality*: These are listed specifically in case one wishes organisms from a particular substratum or locality for investigation. Most of the isolates are of tropical or sub-tropical origin. Organisms received from other sources are indicated by their previous number, or source.

8. *Culture identification numbers*: Many of our cultures have been distributed previously as "PQMD" numbers. The "P" and the "D" have now been dropped and a culture formerly designated as "PQMD 4c," is now "QM 4c," i.e., the actual number is unchanged.

Numerous cultures that had been isolated at other agencies and sent to us have been accessioned under our own QM numbers. Where this is the case, our QM number appears first, directly followed by the original culture number. The following categories are those directly concerned with this change:

(a) Cultures isolated at Jeffersonville Quartermaster Depot (4, 5, 6) and sent to us as "JQMD" numbers; for instance *Aspergillus ustus*, JQMD 272, appears in the present list as "QM 891 (JQMD 272)."



(b) Cultures isolated by Dr. G. F. Weber at the University of Florida from Quartermaster items exposed experimentally in Florida, listed as "QM 877 (Fla A-2)."

(c) Cultures sent to us by Dr. W. H. Weston (14, 15) at Harvard which had been isolated mostly by Dr. E. S. Barghoorn (1, 2) and Dr. W. G. Hutchinson (8) under wartime OSRD contracts. Most of them were made in Panama or were from Panama materials. A culture by Barghoorn appearing in Harvard Reports as "B-66E" is here listed "QM 663 (Pan B-66E)." Cultures from Hutchinson may be designated as "CZ" or "UP."

(d) BPI = cultures obtained from the Division of Cotton and other Fiber Crops and Diseases, Bureau of Plant Industry, U. S. Department of Agriculture, as "QM 365 (BPI T-1)." Cultures in this series have been widely distributed from the Bureau of Plant Industry under such designations as "T-1" or "1334.2." Recipients have generally added the letters "USDA" as "USDA T-1," etc. Dr. Marsh advises that, with the exception of *Chaetomium globosum*, USDA 1042.4, all such cultures should be designated "BPI."

(e) AMP = isolates made by the Australian Mycological Panel in 1944; also previously (47) referred to as "Aust." or more commonly as "SN," which translates simply "Serial Number."

(f) MIT = isolates made by W. L. White in 1944 at the Chemical Warfare Service Development Laboratory, Massachusetts Institute of Technology.

(g) 42nd Chem. = isolates made in the southwest Pacific by the 42nd Chemical Laboratory Co. of the Chemical Warfare Service in 1943 and sent to Chemical Warfare Service Development Laboratory, M.I.T.

(h) NIH = National Institute of Health, Bethesda, Md.

(i) NRRL = Northern Regional Research Laboratory, U. S. Department of Agriculture, Peoria, Ill.

(j) BOL = British Ordnance Laboratory, Cawnpore, India.

(k) ATCC = America Type Culture Collection, Washington, D. C.

## FUNGI

Organism	Activity	Identified By	Substrate	Locality
<b>Absidia capillata</b> van Tieghem (1)				
QM 8b	C- W-	V. M. Cutter	Cotton shirt	New Guinea
<b>Absidia</b> sp. (1)				
QM 579 (Fla D-75)	C- W-		Cot fabric	Florida
<b>Acladium</b> sp.? (2)				
QM 45f	C+ W+		Shoe	India
QM 49c	C+ W+		Cartridge belt	India
<b>Acremoniella</b> sp. (1)				
QM 580 (JQMD 454)	C+ W+	G. W. Martin	Trousers	New Guinea
<b>Acremonium</b> sp. (9)				
QM 1b	C+ W+		Tent canvas	Bougainville
QM 89c	C+ W+	W. L. White	Canvas legging	New Guinea



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>		<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
QM 581 (JQMD 365)	C+	W+	G. W. Martin	Belt	New Guinea
QM 582 (JQMD 1117)	C+	W+	J. V. Harvey	Tent	New Guinea
QM 583 (JQMD 1168)	C+	W+	L. G. Isfort	Tent	New Guinea
<b>Acrostalagmus albus</b> Preuss (1)					
QM 663 (Pan B-66E)	C+	W+	K. B. Raper	Leaves	Canal Zone
<b>Acrostalagmus cinnabarinus</b> Corda (8)					
QM 320e	C+	W+	W. L. White	Cardboard	Maryland
<b>Acrostalagmus</b> sp. (1)					
<b>Aegerita</b> sp. (2)					
QM 566 (Pan B-217I)	C+	W-	D. H. Linder	Canvas	Canal Zone
Agaricaceae? (1)					
<b>Alternaria cleraceae</b> Milbrath (0)					
QM 280	C-	W+		Tomato transplants	Georgia USA
<b>Alternaria solani</b> (Ellis & Martin) Jones & Grout (0)					
QM 281 (Main Exp. Sta. 52)	C+	W+		Potato	Maine USA
<b>Alternaria tenuis</b> Nees (14)					
QM 26a	C+	W+	J. W. Groves	Canvas	Russell Is.
QM 73b	C+	W+	W. L. White	Plastic canteen	New Guinea
QM 85i	C+	W+	J. W. Groves	Canvas tent	Italy
QM 120m	C+	W+	"	Tarpaulin	Canal Zone
QM 584 (Fla B-7)	C+	W+	"	Tent	Florida USA
QM 585 (Fla B-47)	C+	W+	"	Canvas	Florida USA
QM 586 (Fla B-48)	C+	W+	"	Canvas	Florida USA
<b>Alternaria</b> sp. (30)					
QM 15a	C+	W+	W. L. White	Shoe leather	New Hebrides
QM 298	C+	W+	M. H. Downing	Electric wiring	Penna. USA
QM 587 (Fla F-11)	C+	W+	D. H. Linder	Nylon net	Florida USA
<b>Antennaria</b> sp. (1)					
<b>Aposphaeriopsis</b> n. sp. (1)					
QM 668 (Pan 52A7A)	C+	W+	D. H. Linder	Canvas	Canal Zone
<b>Arthrobotrys arthrobotryoides</b> (Berlese) Lindau (3)					
QM 669 (Pan B-63A (II))	C+	W-	D. H. Linder	Tentage	Canal Zone
<b>Arthrobotrys superba</b> Corda (1)					
QM 670 (Pan 51A2A)	C+	W+	D. H. Linder	Textile	Canal Zone
<b>Arthrobotrys superba</b> Corda var. <b>oligospora</b> Coemans (1)					
QM 671 (Pan B-741A)	C+	W-	D. H. Linder	Tarpaulin	Canal Zone
<b>Arthrobotrys</b> sp. (1)					
<b>Arthrosporium</b> sp. (1)					
<b>Ascobolus saccoboloides</b> Seaver ex Dodge & Seaver (1)					
QM 899 (JQMD 637)	C+	W+	F. J. Seaver	Socks	New Guinea
<b>Aspergillus awamori</b> Nakazawa (1)					
<b>Aspergillus caespitosus</b> Raper & Thom (1)					
QM 961	C-	W+	Reese & Downing	Shoe	New Guinea
<b>Aspergillus candidus</b> Link (1)					
<b>Aspergillus carbonarius</b> (Bainier) Thom (0)					
QM 331 (NRRL 369)	C-	W-			



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
<b>Aspergillus chevalieri</b> (Mangin) Thom & Church (16)				
QM 52b	C— W—	K. B. Raper	Khaki shirt	New Guinea
QM 64c	C— W—	Reese & Downing	Poplin shirt	New Guinea
QM 112a	C— W—	W. L. White	Synthetic buttons	Florida USA
QM 312	C— W—	Reese & Downing	Cork gasket	Penna. USA
<b>Aspergillus chevalieri</b> (Mangin) var. <b>intermedius</b> Thom & Raper (4)				
QM 58b	C— W—	K. B. Raper	Leatherette	New Guinea
<b>Aspergillus clavatus</b> Desmazieres (4)				
QM 862 (JQMD 239)	C— W+	G. W. Martin	Tarpaulin	New Guinea
QM 872 (JQMD 206)	C— W+	K. B. Raper	Tarpaulin	New Guinea
<b>Aspergillus conicus</b> Blochwitz (2)				
<b>Aspergillus fischeri</b> Wehmer (9)				
QM 864 (JQMD 589)	C+ W+	G. W. Martin	Paper	Georgia USA
QM 865 (Fla A-11)	C+ W+	K. B. Raper	Canvas cot	Florida USA
QM 866 (Fla B-21)	C+ W+	"	Canteen cover	Florida USA
QM 867 (Fla B-26)	C+ W+	"	Sample cloth	Florida USA
<b>Aspergillus flavipes</b> (Bainier & Sartory) Thom & Church (10)				
QM 24a	C+ W—	K. B. Raper	Grey netting	Russell Is.
QM 868 (Fla A-14)	C+ W+	"	Canvas cot	Florida USA
QM 869 (Fla B-67)	C+ W+	"	Canvas legging	Florida USA
<b>Aspergillus flavus</b> Link (89)				
QM 4m	C— W+	K. B. Raper	Shoe	Bougainville
QM 10e	C— W+	"	Canvas	New Guinea
QM 63c	C— W+	W. L. White	Cotton rope	New Guinea
QM 70a	C— W+	W. L. White	Shoe	New Guinea
QM 138f	C— W+	"	Shoe	New Guinea
QM 380	C— W+	K. B. Raper	Shoe	New Guinea
QM 870 (Fla C-2)	C— W+	K. B. Raper	Web belt	Florida USA
<b>Aspergillus flavus-oryzae</b> group (4)				
QM 871 (Fla C-57)	C— W+	K. B. Raper	Sock	Florida USA
<b>Aspergillus foetidus</b> Thom & Raper (0)				
QM 328 (NRRL 341)	C— W—			
<b>Aspergillus fonsecaeus</b> Thom & Raper (1)				
QM 330 (NRRL 67)	C— W—			
<b>Aspergillus fumigatus</b> Fresenius (30)				
QM 6b	C+ W+	K. B. Raper	Shelter half	Bougainville
QM 45h	C+ W+	"	Shoe	India
QM 445 (MIT 10)	C+ W+	W. L. White	Chair glue	Mass. USA
QM 497	C+ W+	E. T. Reese	Compost	Penna. USA
<b>Aspergillus giganteus</b> Wehmer (1)				
QM 620 (Pan V4CE3AII)	C+ W—	K. B. Raper	Textile sample	Canal Zone
<b>Aspergillus luchuensis</b> series (36)				
QM 21e	C+ W—		Tarpaulin	New Hebrides
QM 102d	C+ W—		Leather liner	New Guinea
QM 155e	C+ W—	Reese & Downing	Shelter half	New Georgia
QM 873 (JQMD 190)	C+ W—	G. W. Martin	Tent	New Guinea
QM 874 (JQMD 745)	C+ W—	"	Tent	New Guinea
<b>Aspergillus melleus</b> Yukawa (2)				
<b>Aspergillus miyakoensis</b> Nakazawa (1)				



## FUNGI (continued)

Organism	Activity		Identified By	Substrate	Locality
<b>Aspergillus montevidensis</b> Talice & Mackinnon (1)					
QM 401 (AMP 81)	C—	W—	D. H. Linder	Electric equipment	New Guinea
<b>Aspergillus nidulans</b> (Eidam) Winter (7)					
QM 25b	C—	W+	Reese & Downing	Shoe leather	Russell Is.
QM 87c	C+	W+	"	Cotton rope	New Guinea
QM 875 (JQMD 942)	C—	W+	K. B. Raper	Tent rope	Guadalcanal
QM 876 (Fla. A-13)	C+	W+	"	Canvas cot	Florida USA
<b>Aspergillus nidulans</b> group (2)					
<b>Aspergillus niger</b> van Tieghem (49)					
QM 458 (TC 215-4247)	C—	W—			
QM 877 (Fla A-2)	C+	W—	D. H. Linder	Canvas cot	Florida USA
QM 878 (Fla C-78)	C—	W—		Typewriter ribbon	Florida USA
<b>Aspergillus niger</b> mut. <b>cinnamomeus</b> (Schiemann) Thom & Raper (0)					
QM 326 (NRRL 348)	C—	W—	K. B. Raper		
<b>Aspergillus niger</b> mut. <b>schiemanni</b> (Thom) Thom & Raper (0)					
QM 327 (NRRL 361)	C+	W—	K. B. Raper		
<b>Aspergillus niger</b> group (81)					
QM 4j	C—	W—	W. L. White	Shoe	Bougainville
QM 38b	C—	W—	"	Tent canvas	India
QM 45d	C—	W—	"	Shoe	India
QM 50c	C—	W—	"	Tent lines	Hawaii
QM 154a	C—	W—	"	Musette bag	New Georgia
QM 198b	C—	W—	W. L. White	Cotton twill	Eastern USA
QM 386 (AMP 26)	C—	W—	D. H. Linder	Wireless set	Australia
QM 861 (Fla D-120)	C—	W—	Reese & Downing	Cot fabric	Florida USA
<b>Aspergillus niveus</b> Blochwitz (2)					
QM 879 (JQMD 1148)	C+	W+	Reese & Downing	Tent	New Guinea
<b>Aspergillus ochraceus</b> Wilhelm (0)					
QM 26b	C+	W+	W. L. White	Canvas	Russell Is.
QM 58c	C+	W+	K. B. Raper	Leatherette	New Guinea
QM 880 (JQMD 1014)	C—	W+	"	Mattress cover	Guadalcanal
QM 881 (JQMD 1080)	C+	W+	L. G. Isfort	Wool overcoat	Guadalcanal
<b>Aspergillus oryzae</b> (Ahlburg) Cohn (3)					
QM 22b	C—	W+	K. B. Raper	Canvas	Russell Is.
QM 82i	C—	W+	W. L. White	Haversack	New Guinea
<b>Aspergillus ostianus</b> Wehmer (1)					
<b>Aspergillus panamensis</b> Raper & Thom (1)					
QM 882 (JQMD 515)	C—	W—	Reese & Downing	Shoe	New Guinea
<b>Aspergillus parasiticus</b> Speare (2)					
QM 883 (Fla A-7)	C—	W+	K. B. Raper	Cot fabric	Florida USA
QM 884 (Fla A-8)	C—	W+	"	Cot fabric	Florida USA
<b>Aspergillus phoenicis</b> (Corda) Thom & Currie (0)					
QM 329 (NRRL 1956)	C—	W—	K. B. Raper		
<b>Aspergillus repens</b> (Corda) deBary (22)					
QM 44c	C—	W—		Tobacco	S. W. Pacific
QM 56f	C—	W—	K. B. Raper	Tent rope	New Guinea
QM 59g	C—	W—		Canvas kit	New Guinea



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
QM 210	C— W—	W. L. White	Ham	Virginia USA
QM 360	C— W—	Reese & Downing	Electric wire	Penna. USA
QM 361	C— W—	"	Electric wire	Penna. USA
QM 364	C— W—	"	Electric wire	Penna. USA
QM 564		E. T. Reese	Contaminant	Penna. USA
<b>Aspergillus restrictus</b> G. Smith (6)				
QM 496	C— W—	E. T. Reese	Wooden stock	Penna. USA
QM 885 (JQMD 1213)	C— W—	L. G. Isfort	Canvas legging	New Guinea
<b>Aspergillus rugulosus</b> Thom & Raper (0)				
QM 886 (JQMD 729)	C+ W+	K. B. Raper	Tent	New Guinea
<b>Aspergillus sclerotiorum</b> Huber (2)				
QM 661 (Pan 51A3C)	C— W+	K. B. Raper	Textile sample	Canal Zone
<b>Aspergillus sulphureus</b> (Fresenius) Thom & Church (3)				
<b>Aspergillus sydowi</b> (Bainier & Sartory) Thom & Church (93)				
QM 4d	C— W—	K. B. Raper	Shoe	Bougainville
QM 31c	C— W—	"	Canvas bag	New Guinea
QM 41a	C— W—	"	Tent rope	India
QM 54a	C— W—	"	Tentage	New Guinea
QM 96a	C— W—	W. L. White	Cellophane	Florida USA
QM 103g	C— W—	Reese & Downing	Canvas tent	New Guinea
<b>Aspergillus tamaritii</b> Kita (23)				
QM 50b	C— W+	K. B. Raper	Tent lines	Hawaii
QM 75b	C— W+	Reese & Downing	Cellophane	New Guinea
QM 887 (JQMD 949)	C— W+	K. B. Raper	Shoe leather	Guadalcanal
QM 888 (Fla A-6)	C— W+	"	Canvas cot	Florida USA
<b>Aspergillus terreus</b> Thom (53)				
QM 72f	C+ W+	W. L. White	Leather scabbard	New Guinea
QM 82j	C+ W+	"	Haversack	New Guinea
QM 91c	C+ W+	"	Canvas	New Guinea
QM 106g	C+ W+		Canvas legging	New Guinea
QM 442 (MIT 7)	C+ W+	W. L. White	Wood shelf	Mass. USA
QM 889 (Fla B-19)	C+ W+	K. B. Raper	Canteen cover	Florida USA
<b>Aspergillus unguis</b> Emile-Weil & Gaudin (28)				
QM 8f	C— W—	K. B. Raper	Cotton undershirt	New Guinea
QM 30b	C— W—	W. L. White	Shoe	Hawaii
QM 45e	C— W—	K. B. Raper	Shoe	India
QM 53c	C— W—	"	Leather strap	New Guinea
QM 890 (Fla F-8)	C— W—	"	Nylon hammock	Florida USA
<b>Aspergillus ustus</b> (Bainier) Thom & Church (43)				
QM 29c	C+ W+	K. B. Raper	Tarpaulin	Hawaii
QM 89d	C+ W+	W. L. White	Canvas legging	New Guinea
QM 133f	C+ W—		Canteen cover	New Georgia
QM 137d	C+ W—		Shoes	New Guinea
QM 891 (JQMD 272)	C+ W—	G. W. Martin		Indiana USA
QM 892 (JQMD 673)	C+ W+	Reese & Downing	Case liner	Georgia USA
<b>Aspergillus ustus</b> (Bainier) var. <b>laevis</b> Blochwitz (14)				
QM 24a-2	C— W—	K. B. Raper	Netting	Russell Is.
QM 893 (Fla F-17)	C— W—	"	Nylon hammock	Florida USA



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>	<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
<b><i>Aspergillus versicolor</i></b> (Vuillemin) Tiraboschi (98)				
QM 4g	C— W—	W. L. White	Shoe leather	Bougainville
QM 17d	C— W—	K. B. Raper	Tentage	New Hebrides
QM 432 (MIT 1c)	C— W—	"	Cellophane	India
QM 894 (Fla D-77)	C— W—	"	Cot fabric	Florida USA
<b><i>Aspergillus versicolor</i></b> group (2)				
<b><i>Aspergillus violaceo-fuscus</i></b> Gasperini (3)				
QM 335 (NRRL 360)	C— W—	K. B. Raper		
<b><i>Aspergillus wentii</i></b> Wehmer (1)				
QM 44a	C— W—	K. B. Raper	Tobacco	S. W. Pacific
<b><i>Aspergillus</i></b> sp. (3)				
Basidiomycetes (48)				
QM 588 (Fla B-44)	C+ W—	W. L. White	Canvas	Florida USA
QM 589 (Fla B-75)	C+ W+	"	Shoe	Florida USA
<b><i>Blakeslea trispora</i></b> Thaxter (12)				
<b><i>Blakeslea</i></b> sp. (11)				
<b><i>Blennoria</i></b> sp. (1)				
QM 590 (JQMD 991)	C— W—	G. W. Martin (?)	Nylon plate	Indiana USA
<b><i>Botryella</i></b> sp. (3)				
<b><i>Botryodiplodia theobromae</i></b> Patouillard (157)				
QM 78a	C+ W+	W. L. White	Tent canvas	New Guinea
QM 145h	C+ W+		Tarpaulin	New Georgia
QM 166a	C+ W+		Citrus	Trinidad
QM 898 (JQMD 891)	C+ W+	G. W. Martin	Tent	New Guinea
<b><i>Botryodiplodia</i></b> sp. (4)				
<b><i>Botryophialophora</i></b> sp. (1)				
QM 571 (Pan V58B3AIII)	C— W+	D. H. Linder	Textile	Canal Zone
<b><i>Botryosphaeria</i></b> sp. (1)				
<b><i>Botryosporium</i></b> sp.				
QM 907	C— W—		Paper	from Dr. Sinden
<b><i>Botrytis cinerea</i></b> Persoon (0)				
QM 520	C+ W—	C. L. Fergus	Poinsettia	Penna. USA
<b><i>Botrytis</i></b> sp. (7)				
QM 344	C+ W—	W. L. White	Green pepper	Penna. USA
QM 578	C+ W—	E. T. Reese	<i>Maclura pomifera</i>	Penna. USA
QM 592 (JQMD 540)	C+ W+	L. G. Isfort	Tent	New Guinea
QM 594 (JQMD 781)	C+ W—	G. W. Martin	Tent	Pacific
<b><i>Brachysporium oosporum</i></b> (Corda) Saccardo (7)				
QM 665 (Fla G-128)	C+ W+	D. H. Linder	Water proof bag	Florida USA
<b><i>Brachysporium</i></b> sp. (21)				
QM 38d	C+ W+		Tentage	India
QM 63b	C+ W+		Cotton rope	New Guinea
QM 70g	C+ W+		Shoe	New Guinea
QM 595 (Fla B-57)	C+ W+	J. W. Groves	Tent	Florida USA



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
<b>Byssochlamys</b> sp. (1)				
<b>Cephalophora tropica</b> Thaxter (1)				
QM 596 (JQMD 956)	C+ W+	W. L. White	Shoe leather	Guadalcanal
<b>Cephalosporium acremonium</b> Corda (2)				
QM 611 (Pan B-212C)	C+ W+	D. H. Linder	Canvas	Canal Zone
<b>Cephalosporium curtipes</b> Saccardo (1)				
<b>Cephalosporium</b> sp. (30)				
QM 107a	C+ W+		Trousers	New Guinea
QM 124h	C+ W+		Cotton duck	Canal Zone
QM 127e	C+ W+		Tarpaulin	New Georgia
QM 597 (JQMD) 297)	C- W+	G. W. Martin	Tent	New Guinea
QM 598 (Fla B-5)	C+ W+	D. H. Linder	Tent	Florida USA
<b>Cephalothecium roseum</b> Corda (1)				
QM 599 (Fla B-50)	C- W+		Canvas	Florida USA
<b>Cephalothecium</b> sp. (5)				
QM 600 (JQMD 380)	C+ W+	G. W. Martin	Tarpaulin	New Guinea
<b>Cercospora</b> sp. (1)				
QM 601 (JQMD) 786	C+ W+	G. W. Martin	Tent	New Guinea
<b>Cercosporidium</b> sp. (1)				
QM 602 (JQMD 257)	C+ W+	G. W. Martin	Tarpaulin	New Guinea
<b>Chaetodiplodia</b> sp. (1)				
QM 603 (JQMD 197)	C+ W+		Tent	New Guinea
<b>Chaetomella</b> sp. (1)				
QM 40c	C+ W+		Canvas	India
<b>Chaetomium atrobrunneum</b> Ames (1)				
QM 626 (JQMD 1041)	C+ W+	L. M. Ames	Mattress cover	Guadalcanal
<b>Chaetomium cochliodes</b> Palliser (1)				
QM 604 (JQMD 131)	C+ W+	L. M. Ames		Tropical America
<b>Chaetomium elatum</b> Kunze & Schmidt (9)				
QM 382 (AMP 11)	C+ W+		Sandbag	Australia
QM 605 (JQMD 776)	C+ W-	L. M. Ames	Tent	Pacific area
QM 606 (JQMD 1082)	C+ W-	L. G. Isfort	Wool overcoat	Guadalcanal
<b>Chaetomium funiculum</b> Cooke (31)				
QM 33c	C+ W-	D. H. Linder	Pistol belt	New Guinea
QM 34d	C+ W-	W. L. White	Canteen cover	New Guinea
QM 35e	C+ W-	"	Tent	New Guinea
QM 42a	C+ W-	L. M. Ames	Cap	India
QM 383 (AMP 12)	C+ W+	"	Pea seed	Australia
QM 607 (Fla B-12)	C+ W-	D. H. Linder	Tent	Florida USA
<b>Chaetomium globosum</b> Kunze (93)				
QM 32b	C+ W+	L. M. Ames	Tent	New Guinea
QM 38f	C+ W+	"	Canvas tent	India
QM 85n	C+ W+	"	Canvas tent	Italy
QM 104a	C+ W+	"	Rubber boot	New Guinea
QM 459 (USDA 1042.4)	C+ W+			
QM 608 (Fla C-12)	C+ W+	D. H. Linder	Shower curtain	Florida USA



## FUNGI (continued)

Organism	Activity		Identified By	Substrate	Locality
<b>Chaetomium indicum</b> Corda (8)					
QM 46b	C+	W-	L. M. Ames	Tent rope	India
QM 47c	C+	W-	"	Wax paper	India
QM 156f	C+	W-	"	Barracks bag	New Georgia
QM 621 (JQMD 810)	C+	W-	W. L. White	Tent	New Guinea
<b>Chaetomium spirale</b> Zopf (1)					
QM 622 (JQMD 135)	C+	W+	G. W. Martin		Tropical America
<b>Chaetomium tortile</b> Bainier (1)					
QM 895 (JQMD 477)	C+	W+	E. T. Reese	Trousers	New Guinea
<b>Chaetomium velutinum</b> Ames (1)					
QM 623 (JQMD 359)	C+	W+	L. M. Ames	Tent	New Guinea
<b>Chaetomium</b> n. sp. of Ames (8)					
QM 624 (JQMD 486)	C+	W+	L. M. Ames	Greenhouse soil	Indiana USA
QM 625 (JQMD 647)	C+	W-	"	Case liner	Georgia USA
<b>Chaetomium</b> sp. (15)					
QM 145k	C+	W-		Tarpaulin	New Georgia
QM 155b	C+	W-		Shelter half	New Georgia
QM 627 (JQMD 1105)	C+	W+	L. G. Isfort	Wool overcoat	Guadalcanal
<b>Chloridium</b> sp. (2)					
QM 567 (Pan 54A3R)	C+	W+	D. H. Linder	Textile sample	Canal Zone
<b>Choanophora simsonii</b> Cunningham (1)					
<b>Choanophora</b> sp. (20)					
QM 565 (Pan 10A4B)			V. M. Cutter	Textile sample	Canal Zone
<b>Chromosporium</b> sp. (2)					
QM 628 (Fla C-73)	C+	W+	D. H. Linder	Cotton cord	Florida USA
<b>Circinella spinosa</b> van Tieghem & Le Monnier (0)					
QM 537 (Schneidau 760; ATCC 9025)	C-	W-			
<b>Circinella sydowi</b> Lendner (1)					
QM 629 (JQMD 672)	C-	W-	V. M. Cutter	Litter	Florida USA
<b>Circinella</b> sp. (1)					
QM 672 (Fla I-A245)	C-	W-	D. H. Linder	Poplin	Florida USA
QM 902 (Fla C-13)	C-	W-	E. T. Reese	Shower curtain	Florida USA
<b>Citromyces musae</b> Bainier & Sartory (4)					
<b>Cladosporium herbarum</b> Link (31)					
QM 17b	C-	W+	W. L. White	Tentage	New Hebrides
QM 52a	C-	W+		Khaki shirt	New Guinea
QM 55b	C+	W-		Leather band	New Guinea
QM 71d	C+	W+		Canvas glove	New Guinea
QM 120g	C-	W+	W. L. White	Tarpaulin	Canal Zone
QM 121k	C+	W+	"	Tarpaulin	Canal Zone
QM 122e	C+	W+	"	Duck	Canal Zone
QM 279a	C-	W-	"	Painted wood	Costa Rica
QM 489	C-	W-	Reese & Downing	Floor	Penna. USA
<b>Cladosporium</b> sp. (73)					
QM 122c	C+	W+	W. L. White	Duck	Canal Zone
QM 146h	C-	W-		Tarpaulin	New Georgia
QM 236			W. L. White	Shower curtain	
QM 279b	C-	W-	"	Painted wood	Costa Rica



## FUNGI (continued)

Organism	Activity		Identified By	Substrate	Locality
<b>Clasterosporium</b> sp. (1)					
<b>Coccobolus</b> sp. ? (2)					
QM 534 (Pan X 23A2A)	C+	W+	D. H. Linder	Textile	Canal Zone
<b>Coccosporium</b> sp. (0)					
QM 230 (Higinbotham 46-1-4)	C+	W+			
<b>Colletotrichum</b> sp. (2)					
QM 533 (UP 139A)	C+	W+		Decayed leaves	Canal Zone
<b>Collonaemella</b> sp. (1)					
QM 568 (Pan B-C61)	C+	W+		Leather, cowhide	Canal Zone
<b>Coniothyrium</b> sp. (2)					
<b>Coprinus radians</b> (Desmazières) Fries (1)					
<b>Coprinus</b> sp. (3)					
QM 149e	C-	W+		Tent	New Georgia
QM 630 (JQMD 351)	C+	W+	G. W. Martin	Greenhouse soil	Indiana USA
<b>Corynespora</b> sp. (2)					
QM 569 (Pan B-52BI)	C+	W+	D. H. Linder	Duck	Canal Zone
<b>Ctenomyces serratus</b> Eidam? (0)					
QM 256 (NIH 1902)	C-	W+	C. W. Emmons	Bird's nest	England
<b>Ctenomyces</b> sp. ? (7)					
QM 199	C-	W+	C. W. Emmons	Wool shallie	Penna. USA
QM 287 (BOL D-381)	C-	W+	W. L. White	Wool serge	India
QM 774 (JQMD ) 1070	C+	W-	"	Tent	New Guinea
QM 845 (JQMD 1277)	C-	W+	"	Wool overcoat	Guadalcanal
<b>Cunninghamella bertholletiae</b> Stadel (1)					
<b>Cunninghamella blakesleeana</b> Lendner (2)					
QM 631 (JQMD 885)	C-	W+	V. M. Cutter	Tent	New Guinea
<b>Cunninghamella echinulata</b> (Thaxter) Saccardo (6)					
QM 35c	C-	W+	V. M. Cutter	Tent	New Guinea
QM 154f	C-	W+		Musette bag	New Georgia
QM 632 (JQMD 927)	C-	W-	V. M. Cutter	Tent rope	Guadalcanal
<b>Cunninghamella elegans</b> Lendner (8)					
QM 633 (JQMD 181)	C-	W+	V. M. Cutter	Greenhouse soil	Indiana USA
QM 634 (Fla B-4)	C-	W+	D. H. Linder	Tent	Florida USA
QM 635 (Fla C-88)	C-	W+	"	Typewriter ribbon	Florida USA
<b>Cunninghamella</b> sp. (5)					
QM 636 (JQMD 1035)	C-	W+	L. G. Isfort	Canvas cot	Guadalcanal
<b>Curvularia brachyspora</b> Boedijn (6)					
QM 93b	C+	W+	J. W. Groves	Tarpaulin	New Guinea
QM 637 (Fla A-19)	C+	W+	"		Florida USA
QM 638 (Fla B-8)	C+	W+	"	Tent	Florida USA
QM 639 (Fla B-46)	C+	W+	W. L. White	Tent	Florida USA
<b>Curvularia falcata</b> (Tehon) Boedijn (5)					
QM 77a		W+	J. W. Groves	Tent	New Guinea
QM 120h	C+	W+	"	Tarpaulin	Canal Zone
QM 640 (JQMD 590)	C-	W+	"	Tent	New Guinea



## FUNGI (continued)

Organism	Activity		Identified By	Substrate	Locality
<b>Curvularia fallax</b> Boedijn (2)					
QM 561 (Pan B-663A)	C+	W+	D. H. Linder	Textile sample	Canal Zone
<b>Curvularia geniculata</b> (Tracy & Earle) Boedijn (2)					
QM 562 (Pan C1A4A)	C+	W+	D. H. Linder	Textile sample	Canal Zone
<b>Curvularia intermedia</b> Boedijn ? (1)					
QM 563 (Pan B-711A)	C+	W+	D. H. Linder	Textile	Canal Zone
<b>Curvularia lunata</b> (Wakker) Boedijn (33)					
QM 34b	C+	W+	J. W. Groves	Canteen cover	New Guinea
QM 120L	C+	W+	"	Tarpaulin	Canal Zone
QM 641 (JQMD 569)	C+	W+	"	Raincoat	New Guinea
QM 642 (Fla D-90)	C+	W+	D. H. Linder	Cot fabric	Florida USA
<b>Curvularia maculans</b> (Bancroft) Boedijn (8)					
QM 666 (Pan B-210F)	C+	W+	D. H. Linder	Textile	Canal Zone
<b>Curvularia</b> sp. (22)					
QM 371d	C+	W+	White & Downing	Cardboard	Florida USA
QM 535 (Pan 58A8B)	C+	W+	E. T. Reese	Textile	Canal Zone
QM 643 (JQMD 627)	C-	W+	G. W. Martin	Tent	New Guinea
QM 674 (Pan 81H)	C+	W+	D. H. Linder	Cotton thread	Canal Zone
<b>Cylindrocarpon album</b> (Saccardo) Wollenweber (1)					
QM 673 (Pan 51C20I)	C+	W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Cylindrocarpon candidum</b> (Link) Wollenweber (1)					
QM 530 (Pan 8B5DI)	C+	W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Cylindrocarpon janthotele</b> Wollenweber (2)					
<b>Cylindrocarpon olidum</b> Wollenweber (0)					
QM 538 (Schneidau 850; ATCC 6679)	C+	W+			
<b>Cylindrocarpon soparium</b> n.var. (1)					
QM 557 (UP 151)	C+	W+	C. D. Sherbakoff	Decaying leaves	Canal Zone
<b>Cylindrocarpon</b> sp. (30)					
<b>Cylindrocephalum aureum</b> (Corda) Bonorden (16)					
QM 523 (Fla E-9)	C+	W+	D. H. Linder	Canvas cot	Florida USA
QM 610 (Fla B-116)	C+	W+	"	Nylon hammock	Florida USA
QM 644 (Fla D-158)	C+	W+	"	Rope	Florida USA
<b>Cylindrocephalum</b> sp. (25)					
<b>Cylindrocladium scoparium</b> Morgan (4)					
<b>Cylindrocladium</b> n. sp. (3)					
<b>Cylindrocladium</b> sp. (3)					
<b>Cylindrophora</b> sp. ? (1)					
<b>Cytospora?</b> sp. (1)					
QM 570 (Pan B-227C)	C+	W+	D. H. Linder	Canvas	Canal Zone
<b>Cytosporina?</b> sp. (2)					
QM 713 (Pan B-209T)	C+	W+	D. H. Linder	Canvas	Canal Zone
<b>Dactylium dendroides</b> (Bulliard) Fries (1)					
QM 508	C-	W+	E. T. Reese	Agaricus	Penna. USA
QM 513	C-	W+	"	Mushroom bed	Penna. USA
<b>Daedalea quercina</b> Fries (0)					
QM 510 (C. L. Fergus 24780-S)					



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>	<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
Dematiaceae mycelium non-sporulating (29)				
QM 69d	C— W—		Canvas	New Guinea
QM 646 (JQMD 890)	C+ W+	G. W. Martin	Tent	New Guinea
<b>Dematium</b> sp. (2)				
QM 647 (JQMD 1193)	C+ W+		Tent	New Guinea
<b>Dendrodochium</b> sp. (1)				
QM 714 (Pan 4CA3LI)	C+ W+	D. H. Linder	Canvas	Canal Zone
<b>Dendryphium</b> sp. (4)				
QM 675 (Fla H-185)	C+ W+	D. H. Linder	Cotton socks	Florida USA
<b>Dicoccum</b> sp. (1)				
QM 572 (Pan CZ131)	C— W—		Telescope	Canal Zone
<b>Diplodia</b> sp. (3)				
QM 648 (Fla D-19)	C+ W+		Cot strap	Florida USA
<b>Diplodiella</b> sp. (1)				
<b>Diplodiopsis</b> sp. (1)				
QM 715 (Pan 7PA4C)	C— W—		Textile	Canal Zone
<b>Diploplenodomopsis?</b> sp. (3)				
QM 573 (Pan LI6A2BI)	C+ W+	D. H. Linder	Textile	Canal Zone
<b>Dothiorella</b> sp. (2)				
QM 676 (Pan B-200F)	C+ W+	D. H. Linder	Canvas	Canal Zone
<b>Endoconidiophora</b> n. sp. (1)				
QM 677 (Pan 1TD2F)	C— W—	D. H. Linder	Textile	Canal Zone
<b>Endoconidium</b> sp. (1)				
<b>Endogloea?</b> sp. (1)				
QM 574 (Pan X1A1A)	C+ W+	D. H. Linder	Textile	Canal Zone
<b>Endomyces</b> sp. (3)				
QM 577 (Pan BC-87)	C— W—	D. H. Linder	Photo film	Canal Zone
Endomycetales (5)				
QM 678 (Pan 7PA61I)	C+ W—	D. H. Linder	Textile	Canal Zone
<b>Epicoccum</b> sp. (3)				
QM 284e	C+ W+	W. L. White	Cardboard	Penna. USA
QM 649 (JQMD 790)	C+ W+		Tent	New Guinea
<b>Epidermophyton floccosum</b> (Harz) Langeron & Milochevitch (0)				
<b>Epistigme</b> sp. (1)				
<b>Eurotium</b> sp. (2)				
QM 650 (JQMD 1130)			Tent	New Guinea
QM 651 (JQMD 1250)			Tarpaulin	Guadalcanal
<b>Exophoma</b> sp. ? (1)				
QM 716 (Pan V7MA5AII)	C+ W+	D. H. Linder	Textile	Canal Zone
<b>Fomes pinicola</b> (Fries) Cooke (0)				
QM 511 (C. L. Fergus 24719-S)	C— W—			
<b>Fusarium acuminatum</b> Ellis & Everhart (1)				
QM 525 (Pan 51A2B)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Fusarium avenaceum</b> (Fries) Saccardo (5)				
QM 552 (Pan C1A5EII)	C— W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Fusarium bulbigenum</b> Cooke & Massee (2)				
QM 553 (Pan 51B6F)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
<b>Fusarium camptoceras</b> Wollenweber & Reinking (3)				
QM 679 (Pan B-209D)	C+ W+	C. D. Sherbakoff	Cotton duck	Canal Zone
<b>Fusarium decemcellulare</b> Brick (7)				
QM 613 (Pan B-647A)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Fusarium diversisporum</b> Sherbakoff (34)				
QM 77g	C+ W+	C. D. Sherbakoff	Tent canvas	New Guinea
QM 88a	C+ W+	"	Rope	New Guinea
<b>Fusarium equiseti</b> (Corda) Saccardo (1)				
QM 29a	C+ W+	C. D. Sherbakoff	Tarpaulin	Hawaii
<b>Fusarium graminum</b> Corda (3)				
QM 680 (Pan B-25D)	C- W+	C. D. Sherbakoff	Duck	Canal Zone
<b>Fusarium heterosporum</b> Nees n. var. (1)				
QM 51d	C+ W+	C. D. Sherbakoff	Tentage	Hawaii
<b>Fusarium javanicum</b> Koorders (41)				
QM 23d	C+ W+	C. D. Sherbakoff	Rope	Russell Is.
<b>Fusarium javanicum</b> Koorders var. <b>ensifforme</b> (Wollenweber & Reinking) Wollenweber (5)				
QM 524 (Pan B-233AI)	C+ W+	C. D. Sherbakoff	Canvas	Canal Zone
<b>Fusarium javanicum</b> Koorders var. <b>radicicola</b> Wollenweber (8)				
QM 529 (Pan V51F1B)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Fusarium lactis</b> Pirotta & Riboni (1)				
QM 612 (Pan B65DII)	C+ W+	C. D. Sherbakoff	Dead leaf	Canal Zone
<b>Fusarium lateritium</b> Nees (5)				
QM 120d	C+ W+	W. C. Snyder	Tarpaulin	Canal Zone
<b>Fusarium melanochlorum</b> (Caspary) Saccardo (1)				
QM 652 (Fla A-23)	C+ W+	C. D. Sherbakoff	Cot fabric	Florida USA
<b>Fusarium merismoides</b> Corda (1)				
QM 555 (Pan 51A4F)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Fusarium moniliforme</b> Sheldon (81)				
QM 427 (42nd Chem. 70d)	C+ W+			India
QM 527 (Fla E-209)	C+ W+	C. D. Sherbakoff	Food can	Florida USA
QM 653 (Fla B-13)	C+ W+	W. C. Snyder	Tent	Florida USA
QM 654 (Fla. D-145)	C+ W+	C. D. Sherbakoff	Rope	Florida USA
<b>Fusarium moniliforme</b> Sheldon var. <b>anthophilum</b> (A.Br.) Wollenweber (1)				
QM 717 (Pan 7MB5BII)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Fusarium moniliforme</b> Sheldon var. <b>minus</b> Wollenweber (2)				
QM 556 (Pan C1A5EI)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Fusarium moniliforme</b> Sheldon var. <b>subglutinans</b> Wollenweber & Reinking (1)				
QM 526 (Pan C1A5EI)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Fusarium orthoceras</b> Appel & Wollenweber (4)				
QM 655 (Fla D-101)	C+ W+	C. D. Sherbakoff	Cot fabric	Florida USA
QM 681 (Pan V51F4A)	C+ W+	"	Textile sample	Canal Zone
<b>Fusarium oxysporum</b> Schlechtendahl (33)				
QM 21c		C. D. Sherbakoff	Tarpaulin	New Hebrides
QM 23e	C+ W+	"	Rope	Russell Is.
QM 47e	C+ W+	W. C. Snyder	Wax paper	India
QM 656 (Fla B-61)	C+ W+	"	Tent	Florida USA
QM 657 (Fla C-8)	C+ W+	"	Web belt	Florida USA



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
<b>Fusarium redolens</b> Wollenweber (1)				
QM 682 (Fla E-13)	C+ W+	C. D. Sherbakoff	Canvas cot	Florida USA
<b>Fusarium reticulatum</b> Montagne (7)				
QM 658 (Fla B-14)	C+ W+	C. D. Sherbakoff	Tent	Florida USA
QM 706 (Fla D-99)	C+ W+	"	Cot fabric	Florida USA
<b>Fusarium roseum</b> Link (9)				
QM 38a	C+ W+	W. C. Snyder	Canvas tent	India
QM 38g	C+ W+	"	Canvas tent	India
QM 659 (Fla B-24)	C+ W+	"	Canteen cover	Florida USA
<b>Fusarium sambucinum</b> Fuckel (1)				
QM 662 (Pan B-65C)	C+ W+	C. D. Sherbakoff	Dead leaf	Canal Zone
<b>Fusarium scirpi</b> Lambotte & Fautrey (3)				
QM 660 (Fla C-75)	C+ W+	D. H. Linder	Cotton cord	Florida USA
<b>Fusarium scirpi</b> Lambotte & Fautrey var. <b>compactum</b> Wollenweber (1)				
<b>Fusarium scirpi</b> Lambotte & Fautrey var. <b>filiferum</b> (Preuss) Wollenweber (1)				
QM 528 (Pan B-52A)	C+ W+	C. D. Sherbakoff	Cotton duck	Canal Zone
<b>Fusarium scirpi</b> Lambotte & Fautrey var. <b>longipes</b> (Wollenweber & Reinking)				
			Wollenweber (3)	
QM 50f	C+ W+	C. D. Sherbakoff	Tent	Hawaii
QM 398 (AMP 68)	C+ W+		Tent canvas	New Guinea
<b>Fusarium semitectum</b> Berkeley & Ravenel (7)				
QM 66b	C+ W+	C. D. Sherbakoff	Web strap	New Guinea
QM 122a	C+ W+	"	Cotton duck	Canal Zone
<b>Fusarium semitectum</b> Berkeley & Ravenel var. <b>majus</b> Wollenweber (21)				
QM 121c	C+ W+	C. D. Sherbakoff	Tarpaulin	Canal Zone
<b>Fusarium solani</b> (Martius) Appel & Wollenweber (41)				
QM 21d	C+ W+	C. D. Sherbakoff	Tarpaulin	New Hebrides
QM 745 (Fla D-102)	C+ W+	"	Cot fabric	Florida USA
QM 746 (Fla D-106)	C+ W+	"	Cot fabric	Florida USA
<b>Fusarium solani</b> (Martius) Appel & Wollenweber var. <b>eumartii</b> (Carpenter)				
			Wollenweber (6)	
QM 530 (Pan 8B5DI)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone
QM 554 (Pan 52A3L)		"	Textile sample	Canal Zone
QM 683 (Pan B-23)	C+ W+	"	Canvas	Canal Zone
<b>Fusarium solani</b> (Martius) Appel & Wollenweber var. <b>martii</b> (Appel & Wollenweber)				
			Wollenweber (36)	
QM 747 (Fla D-9)	C+ W+	C. D. Sherbakoff	Cot strap	Florida USA
QM 748 (Fla F-28)	C+ W+	"	Nylon net	Florida USA
<b>Fusarium solani</b> (Martius) Appel & Wollenweber var. <b>minus</b> Wollenweber (18)				
QM 127h	C+ W+	C. D. Sherbakoff	Tarpaulin	New Georgia
QM 749 (Fla C-13b)	C+ W+	"	Shower curtain	Florida USA
QM 750 (Fla B-50)	C+ W+	"	Cot strap	Florida USA
QM 751 (Fla F-148)	C+ W+	"	Pistol belt	Florida USA
<b>Fusarium</b> sec. <b>Elegans</b> (15)				
QM 106b	C+ W+	C. D. Sherbakoff	Canvas legging	New Guinea
QM 120e	C+ W+	"	Tarpaulin	Canal Zone
QM 752 (Fla D-70)	C+ W+	"	Cot fabric	Florida USA
<b>Fusarium</b> sec. <b>Martiella</b> (22)				
QM 125b	C+ W+	C. D. Sherbakoff	Cotton duck	Canal Zone
QM 129g	C+ W+	"	Tent rope	New Georgia



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>	<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
<b>Fusarium</b> sec. <b>Sporotrichoides</b> (1)				
QM 753 (Fla C-66)	C+ W+	C. D. Sherbakoff	Socks	Florida USA
<b>Fusarium</b> sp. (57)				
QM 70f	C+ W+		Shoe	New Guinea
QM 197	C+ W+	M. H. Downing	Wool	Penna. USA
QM 754 (Fla D-97)	C+ W+	C. D. Sherbakoff	Cot fabric	Florida USA
<b>Fusidium</b> sp. (3)				
QM 755 (JQMD 1108)	C+ W+		Wool overcoat	Guadalcanal
<b>Fusoma</b> sp. (2)				
<b>Galactinia</b> sp. ( <i>Botrytis</i> stage) (0)				
QM 345 (Korf SS-3)	C+ W+	R. P. Korf	Greenhouse soil	New York USA
<b>Gelatinosporium</b> sp. (5)				
QM 684 (Pan B-212H)	C+ W+	D. H. Linder	Cotton duck	Canal Zone
<b>Geotrichum</b> sp. (2)				
QM 532 (Fla F-113)	C- W-	D. H. Linder	Hammock, mesh	Florida USA
<b>Gibberella saubinetii</b> (Montagne) Saccardo (1)				
QM 685 (Pan 51A3JII)	C+ W+	C. D. Sherbakoff	Textile sample	Canal Zone
<b>Gliobotrys</b> sp. (1)				
QM 220	C+ W+		Canvas bag	
QM 756 (JQMD 924)	C+ W-	L. G. Isfort	Tent	New Guinea
<b>Gliocladium catenulatum</b> Gilman & Abbott (0)				
QM 177 (NRRL 1093)	C+ W+	W. L. White		
QM 178 (Brian 222)	C+ W+			
QM 372 (Brian 224)	C+ W+			
<b>Gliocladium deliquescens</b> Olsen-Sopp (3)				
QM 169 (BOL 191)	W+ W. L. White			India
<b>Gliocladium fimbriatum</b> Gilman & Abbott (1)				
QM 560 (Pan V51B3A)	C+ W+	K. B. Raper	Textile sample	Canal Zone
<b>Gliocladium glaucum</b> (15)				
QM 559 (Fla H-163)	C- W+	D. H. Linder	O. D. poplin	Florida USA
<b>Gliocladium lignicolum</b> Grove (1)				
<b>Gliocladium penicilloides</b> Corda (9)				
<b>Gliocladium roseum</b> Bainier (43)				
QM 243	C+ W+	W. L. White		Penna. USA
QM 757 (Fla B-34)	C+ W+	D. H. Linder	Cloth	Florida USA
<b>Gliocladium</b> (the species that produces gliotoxin and viridin) (5)				
QM 3a	C+ W+	W. L. White	Tent rope	Bougainville
QM 170 (BOL 63)	C+ W+	"	Tent	India
QM 354 (Brian 218)	C+ W+	"	Greenhouse soil	Jealott's Hill, England
QM 355 (Brian 3)	C- W+	"	Soil	Southern Rhodesia
QM 357 (Brian 208)	C+ W+	"	Manured soil	Jealott's Hill, England
QM 365 (ATCC 9645; BPI T-1)	C+ W+	"		
QM 758 (JQMD 348)	C+ W+	"	Belt	Maryland, USA
<b>Gliocladium</b> sp. (29)				New Guinea



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>	<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
<b>Gliomastix convoluta</b> (Harz) Mason (11)				
QM 4c	C+ W+	W. W. Diehl	Shoe	Bougainville
QM 124c	C+ W+	W. L. White	Cotton duck	Canal Zone
QM 367h	C+ W+	White & Downing	Cardboard	Florida USA
QM 452 (MIT 16)	C+ W+	W. L. White	Cotton webbing	Mass. USA
QM 759 (Fla F-121)	C+ W+	"	Jungle pack	Florida USA
<b>Gloeosporium</b> sp. (3)				
<b>Gloiosphaera globuligera</b> v. Höhnelt (2)				
QM 686 (Fla H-72)	C- W+	D. H. Linder	Coated raincoat	Florida USA
<b>Gloiosphaera</b> sp. (1)				
<b>Graphium rubrum</b> Rumbold (0)				
QM 539 (Schneidau 1600; ATCC 6505)	C- W-			
<b>Graphium</b> sp. (2)				
QM 687 (Fla F-184)	C+ W+	D. H. Linder	Socks	Florida USA
<b>Gymnoascaceae</b> (1)				
<b>Haplaria grisea</b> Link (4)				
QM 320k	C- W+	W. L. White	Cardboard	Maryland
<b>Haplographium</b> sp. (1)				
<b>Haplosporella</b> sp. (3)				
QM 688 (Fla E-105)	C+ W+	D. H. Linder	Food cans	Florida USA
<b>Harknessia</b> sp. (3)				
QM 614 (Pan B-68A)	C- W-	D. H. Linder	Dead leaf	Canal Zone
<b>Helicoma</b> sp. (1)				
QM 760 (JQMD 959)	C+ W+		Tent	New Guinea
<b>Helicosporium lumbricoides</b> Saccardo (1)				
QM 761 (Fla B-48)	C+ W-	D. H. Linder	Cot straps	Florida USA
<b>Helminthosporium</b> sp. (15)				
QM 392 (AMP 44)	C+ W+	D. H. Linder	Canvas	Australia
QM 762 (JQMD 853)	C+ W+		Tent	New Guinea
QM 763 (Fla D-7)	C+ W+		Cot strap	Florida USA
<b>Hemispora</b> sp. (0)				
QM 322	C- W-			From Conant, Duke U.
<b>Herpocleriella</b> sp. (1)				
QM 689 (Fla G-30)	C- W-	D. H. Linder	Haversack	Florida USA
<b>Heterosporium tschawytachii</b> Doty (0)				
QM 540 (Schneidau 2600)	C- W-			
<b>Heterosporium</b> sp. (2)				
QM 70b	C+ W+		Shoe	New Guinea
QM 764 (JQMD 397)	C- W-	J. W. Groves	Trousers	New Guinea
<b>Hormiactella</b> sp. (4)				
QM 765 (JQMD 854)	C+ W-	L. G. Isfort	Tent	New Guinea
QM 766 (JQMD 1050)	C+ W+	"	Tent	New Guinea
<b>Humicola grisea</b> Traaen (1)				
QM 228	C+ W+	E. W. Mason	Compost heap	Penna. USA
QM 498	C+ W+	"	Compost heap	Penna. USA



## FUNGI (continued)

Organism	Activity		Identified By	Substrate	Locality
<b>Humicola</b> sp. (43)					
QM 34e	C+	W+	W. L. White	Canteen cover	New Guinea
QM 71c	C+	W+		Canvas glove	New Guinea
QM 73d	C+	W+		Plastic canteen	New Guinea
<b>Hypomyces ipomoeae</b> (Halsted) Wollenweber (4)					
QM 767 (Fla F-86)	C+	W+	C. D. Sherbakoff	Canteen	Florida USA
<b>Isaria</b> sp. (2)					
QM 4f	C-	W+	W. L. White	Leather	Bougainville
<b>Karlingia rosea</b> (deBary & Woronin) Johanson (0)					
QM 517 (Haskins 45-7)	C+	W-	J. S. Karling		
<b>Lasiostroma</b> sp. (1)					
QM 690 (Pan B-202B)	C+	W+	D. H. Linder	Canvas	Canal Zone
<b>Lichtheimia regneri</b> (Lucet & Costantin) Vuillemin (1)					
QM 45b	C-	W-	V. M. Cutter	Shoe	India
<b>Macrophoma</b> sp. (2)					
QM 692 (Pan C1A3M)	C+	W+	D. H. Linder	Textile sample	Canal Zone
<b>Macrophomopsis</b> sp. (2)					
QM 693 (Pan B-721AI)	C+	W+	D. H. Linder	Textile sample	Canal Zone
<b>Macrosporium</b> sp. (6)					
QM 768 (JQMD 996)	C+	W+		Tent	New Guinea
QM 769 (JQMD 1057)	C+	W+		Tent	New Guinea
<b>Memnoniella echinata</b> (Rivolta) Galloway (88)					
QM 1c	C+	W+	W. L. White	Tent canvas	Bougainville
QM 50d	C+	W+	"	Tent canvas	Hawaii
				Leather	
QM 72i	C+	W+	"	scabbard	New Guinea
QM 82d	C+	W+	"	Haversack	New Guinea
QM 176	C+	W+		Fabric	India
QM 770 (Fla B-66)	C+	W+	D. H. Linder	Canvas legging	Florida USA
QM 771 (Fla F-141)	C+	W+	W. L. White	Pistol belt	Florida USA
<b>Metarrhizium anisopliae</b> (Metschnikoff) Sorokin (0)					
QM 192 (NRRL 1945)	C-	W+	W. L. White	Wire worms	Oregon, USA
<b>Metarrhizium brunneum</b> Petch (0)					
QM 191 (NRRL 1944)	C-	W+	White, conf. Petch	Wire worms	Oregon, USA
<b>Microascus</b> sp. (2)					
QM 859 (Pan 52B4D)	C+	W+	D. H. Linder	Textile sample	Canal Zone
<b>Micropera</b> sp. (1)					
QM 684 (Pan B-804AIII)	C+	W+	D. H. Linder	Fabric	Canal Zone
<b>Microsporium audouini</b> Gruby (0)					
QM 247 (NIH 243)	C-	W+	H. Kittredge	Scalp	Washington, D.C.
<b>Microsporium canis</b> Bodin (0)					
<b>Microsporium gypseum</b> (Bodin) Guiart & Grigorakis (1)					
QM 196	C-	W+	S. B. Salvin	Wool	Penna. USA
QM 245 (NIH 235)	C-	W+	C. W. Emmons	Human face	Maryland USA
<b>Monascus purpureus</b> Went (0)					
QM 541 (Schneidau 9340; ATCC 6405)	C-	W-			



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>	<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
<b>Monascus</b> sp. (2)				
QM 85g	C+ W+		Canvas tent	Italy
<b>Monilia</b> sp. (16)				
QM 772 (JQMD 394)	C+ W-	G. W. Martin	Blanket	New Guinea
QM 773 (JQMD 753)	C+ W+	"	Tent	New Guinea
Moniliales (1)				
<b>Monosporium</b> sp. (2)				
<b>Monotospora daleae</b> Mason (0)				
QM 542 (Schneidau 3240)	C+ W-			
<b>Monotospora lanuginosa</b> (Griffon & Maublanc) Mason (0)				
QM 225 (Reese 14PS)	C- W-	E. W. Mason	Hot compost	Penna. USA
QM 226 (Reese 16PS)	C- W-	E. T. Reese	Hot compost	Penna. USA
QM 227 (Reese 21)	C- W-		Compost heap	Cal. USA
<b>Monotospora</b> sp. (5)				
<b>Mortierella</b> sp. (1)				
QM 695 (Fla E-72)	C- W-	D. H. Linder	Rope	Florida USA
Mortierellaceae (5)				
<b>Mucor fumosus</b> Naumov (1)				
QM 436 (MIT 3B)	C- W-		Gas mask	Mass. USA
<b>Mucor genevensis</b> Lendner (1)				
QM 549 (Pan C1B5FII)	C- W+	V. M. Cutter	Textile sample	Canal Zone
<b>Mucor heterosporus</b> Fischer (10)				
QM 615 (Pan B-213C)	C- W-	D. H. Linder	Canvas	Canal Zone
<b>Mucor hiemalis</b> Wehmer (14)				
QM 775 (Fla D-36)	C- W-	V. M. Cutter	Cot strap	Florida USA
<b>Mucor microsporus</b> Namyslowski (1)				
QM 551 (Pan B-C8)	C- W-	V. M. Cutter	Twill	Canal Zone
<b>Mucor mucedo</b> Brefeld (1)				
QM 550 (Pan B-38DII)	C- W-	V. M. Cutter	Tent	Canal Zone
<b>Mucor murorum</b> Naumov (1)				
QM 776 (Fla C-61)	C- W+	V. M. Cutter	Socks	Florida USA
<b>Mucor racemosus</b> Fresenius (4)				
QM 79J	C- W-	V. M. Cutter	Shoe	New Guinea
QM 777 (Fla C-29)	C- W-	D. H. Linder	Sewing string	Florida USA
<b>Mucor varians</b> Povah (8)				
QM 778 (Fla D-52)	C- W-	V. M. Cutter	Cot fabric	Florida USA
QM 779 (Fla D-164)	C- W-	"	String	Florida USA
<b>Mucor</b> sp. (11)				
QM 155a	C- W-		Tent	New Georgia
QM 490	C- W-	E. T. Reese	Egg	Eastern USA
Mucorales, undetermined (3)				
<b>Myceliophthora lutea</b> Costantin (0)				
QM 514	C+ W-	E. T. Reese	Mushroom bed	Penna. USA
<b>Mycogone perniciosa</b> Magnus (0)				
QM 516	C- W-	E. T. Reese	Mushroom bed	Penna. USA
<b>Myrothecium inundatum</b> Tode ex Fries (0)				
QM 206 (Preston XV)	C- W+		<i>Russula adusta</i>	England



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
<b>Myrothecium roridum</b> Tode ex Fries (3)				
QM 188	C+ W+	W. L. White	Tomato	Mexico
QM 201 (Preston 1)	C+ W+		<i>Asclepias</i> sp.	W. Africa
QM 780 (Fla B-11)	C+ W+	W. L. White	Tent	Florida USA
<b>Myrothecium verrucaria</b> (Albertini & Schweinitz) Ditmer ex Fries (10)				
QM 34f	C+ W+	W. L. White	Canteen cover	New Guinea
QM 70h	C+ W+	"	Shoe	New Guinea
QM 185	C+ W+	G. Smith	Canvas shoe	England
QM 460 (BPI 1334.2)	C+ W+	W. L. White	Cotton bale	Washington, D.C.
QM 781 (Fla C-35)		"	String	Florida USA
<b>Myrothecium</b> sp.? (3)				
QM 375	C+ W+		Chestnut	Penna. USA
<b>Myxofusicoccum</b> sp.? (1)				
QM 575 (Pan B-210M)	C+ W+	D. H. Linder	Canvas	Canal Zone
<b>Myxosporium</b> sp. (1)				
<b>Myxotrichella</b> sp. (3)				
QM 782 (JQMD 814)	C+ W+	G. W. Martin	Tent	New Guinea
QM 783 (JQMD 906)	C+ W+	"	Tent	New Guinea
QM 784 (JQMD 1183)	C+ W+	L. G. Isfort	Tent	New Guinea
Nectrioidaceae (1)				
<b>Neosphaeropsis</b> sp. (1)				
QM 616 (Pan 54C2L)	C+ W-	D. H. Linder	Textile	Canal Zone
<b>Nigrospora sphaerica</b> (Saccardo) Mason (9)				
<b>Nigrospora</b> sp. (5)				
QM 785 (JQMD 428)	C+ W+	W. L. White	Sock	New Guinea
QM 786 (JQMD 925)			Tent	New Guinea
<b>Nodulisporium</b> sp. (1)				
<b>Oedocephalum albidum</b> Saccardo (1)				
QM 92a	C+ W+	W. L. White	Knapsack	New Guinea
<b>Oedocephalum</b> sp.				
QM 904			Paper	from J. W. Sinden
<b>Oidium</b> sp. (3)				
QM 696 (CZ 60)	C- W-		Leaf	Canal Zone
<b>Oospora lactis</b> (Fresenius) Saccardo (3)				
QM 787 (JQMD 1242)	C+ W-	W. L. White	Tarpaulin	New Guinea
<b>Oospora</b> sp. (3)				
<b>Oothecium</b> sp. (1)				
<b>Paecilomyces aureo-cinnamomeum</b> (Biourge) Thom (1)				
QM 536 (Pan B-C37A)	C- W-	K. B. Raper	Air	Canal Zone
<b>Paecilomyces varioti</b> Bainier (52)				
QM 10a	C- W-	W. L. White	Canvas	New Guinea
QM 47d	C- W-	"	Wax paper	India
QM 72e	C- W-		Leather scabbard	New Guinea
QM 108e	C- W-		Shoe	Florida USA
<b>Paecilomyces</b> sp. (5)				
QM 286	C- W-	W. L. White	Ink	Costa Rica



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>	<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
<b>Papularia arundinis</b> (Corda) Fresenius (2)				
QM 788 (Fla F-43)	C+ W+	D. H. Linder	Suspenders	Florida USA
QM 789 (Fla F-182)	C+ W+	"	Socks	Florida USA
<b>Papulospora</b> sp. (5)				
QM 790 (JQMD 385)	C+ W+	G. W. Martin	Soil	Indiana USA
QM 791 (Fla C-32)	C+ W+		Sewing string	Florida USA
<b>Pazschkella</b> sp. (1)				
QM 697 (Pan 52B6BII)	C+ W+	D. H. Linder	Textile	Canal Zone
<b>Pellicularia</b> sp. (2)				
QM 792 (JQMD 1022)	C+ W+	G. W. Martin	Tent rope	Guadalcanal
QM 793 (JQMD 1032)	C+ W+	L. G. Isfort	Mattress cover	Guadalcanal
<b>Peltaster</b> sp.? (1)				
QM 617 (Pan B-766A)	C+ W-	D. H. Linder	Textile sample	Canal Zone
<b>Penicillium africanum</b> Doebelt (1)				
<b>Penicillium atramentosum</b> Thom (1)				
<b>Penicillium avellaneum</b> Thom & Turesson (1)				
<b>Penicillium baiiolum</b> Biourge (5)				
<b>Penicillium biforme</b> Thom (3)				
<b>Penicillium biourgeianum</b> Zaleski (4)				
<b>Penicillium brevi-compactum</b> Dierckx (11)				
<b>Penicillium brevi-compactum</b> series (6)				
<b>Penicillium carmino-violaceum</b> Dierckx (3)				
<b>Penicillium charlesii</b> Smith (1)				
<b>Penicillium charmesinum</b> Biourge (10)				
<b>Penicillium chrysogenum</b> Thom (25)				
<b>Penicillium chrysogenum</b> series (10)				
<b>Penicillium cinerascens</b> Biourge (9)				
<b>Penicillium citreo-viride</b> Biourge (21)				
<b>Penicillium citrinum</b> Thom (17)				
<b>Penicillium citrinum</b> series (280)				
<b>Penicillium commune</b> Thom (2)				
<b>Penicillium corylophilum</b> Dierckx (9)				
<b>Penicillium cyaneum</b> (Bainier & Sartory) Biourge (10)				
<b>Penicillium decumbens</b> Thom (4)				
<b>Penicillium dierckxii</b> Biourge (1)				
<b>Penicillium digitatum</b> Saccardo (1)				
<b>Penicillium expansum</b> Link (2)				
<b>Penicillium fellutanum</b> Biourge (10)				
<b>Penicillium flavi-dorsum</b> Biourge (9)				
<b>Penicillium fluitans</b> Tiegs (2)				
<b>Penicillium frequentans</b> series (15)				
<b>Penicillium funiculosum</b> series (53)				
<b>Penicillium fusco-glaucum</b> Biourge (2)				
<b>Penicillium griseo-brunneum</b> Dierckx (1)				
<b>Penicillium gladioli</b> Machacek (1)				



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>	<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
<b>Penicillium hagemii</b>		Zaleski (1)		
<b>Penicillium herquei</b>		Bainier & Sartory (4)		
<b>Penicillium implicatum</b>		Biourge var. <b>aureo-marginatum</b> Thom (5)		
<b>Penicillium implicatum</b>		series (10)		
<b>Penicillium intricatum</b>		series (1)		
<b>Penicillium italicum</b>		Wehmer (1)		
<b>Penicillium islandicum</b>		Sopp (1)		
<b>Penicillium janczewskii</b>		Zaleski (2)		
<b>Penicillium janthinellum</b>		Biourge (5)		
<b>Penicillium javanicum</b>		van Beyma (1)		
<b>Penicillium jenseni</b>		Zaleski (1)		
<b>Penicillium lilacinum</b>		Thom (15)		
<b>Penicillium luteum</b>		Zukal (6)		
<b>Penicillium luteum</b>		series (84)		
<b>Penicillium majusculum</b>		Westling (1)		
<b>Penicillium melinii?</b>		Thom (1)		
<b>Penicillium multicolor</b>		Grigorieva-Manoilova & Poradielova (5)		
<b>Penicillium musae</b>		Weidmann (1)		
<b>Penicillium namyslowskii</b>		Zaleski (1)		
<b>Penicillium nigricans-janczewskii</b>		(1)		
<b>Penicillium niklewskii</b>		Zaleski (1)		
<b>Penicillium notatum</b>		Westling (1)		
<b>Penicillium oxalicum</b>		Currie & Thom (2)		
<b>Penicillium paczoskii</b>		Zaleski (3)		
<b>Penicillium siemaszki</b>		Zaleski (1)		
<b>Penicillium simplicissimum</b>		(Oudemans) Thom (20)		
<b>Penicillium soppi</b>		Zaleski (1)		
<b>Penicillium spinulosum</b>		Thom (3)		
<b>Penicillium spinulosum</b>		series (1)		
<b>Penicillium steckii</b>		Zaleski (5)		
<b>Penicillium suavolens</b>		Biourge (3)		
<b>Penicillium sulfureum</b>		Sopp (8)		
<b>Penicillium swiecickii</b>		Zaleski (1)		
<b>Penicillium tardum</b>		Thom (8)		
<b>Penicillium tardum</b>		series (9)		
<b>Penicillium umbonatum</b>		Sopp (2)		
<b>Penicillium varians</b>		Munk-Wehmer (1)		
<b>Penicillium vermiculatum</b>		Dangeard (1)		
<b>Penicillium versicolor</b>		Wehmer (1)		
<b>Penicillium vinaceum</b>		Gilman & Abbott (1)		
<b>Penicillium virido-albus</b>		Sopp (1)		
<b>Penicillium palitans</b>		Westling (2)		
<b>Penicillium paxilli</b>		Bainier (6)		



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>	<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
<b>Penicillium phaeo-janthinellum</b> Biourge (2)				
<b>Penicillium pinophilum</b> Hedgecock (1)				
<b>Penicillium piscarium</b> Westling (1)				
<b>Penicillium puberulum</b> Bainier (1)				
<b>Penicillium purpurogenum</b> Stoll (9)				
<b>Penicillium purpurogenum</b> series (9)				
<b>Penicillium raciborskii</b> Zaleski (1)				
<b>Penicillium restrictum</b> Gilman & Abbott (1)				
<b>Penicillium roqueforti</b> Thom (3)				
<b>Penicillium roseo-cinnabarinum</b> Biourge (1)				
<b>Penicillium roseo-purpureum</b> Dierckx (7)				
<b>Penicillium rugulosum</b> Thom (7)				
<b>Penicillium sanguifluus</b> series (1)				
<b>Penicillium sanguineum</b> Sopp (3)				
<b>Penicillium sartoryi</b> Thom (2)				
<b>Penicillium waksmani</b> Zaleski (5)				
<b>Penicillium westlingi</b> Zaleski (43)				
<b>Penicillium wortmanni</b> Klocker (6)				
<b>Penicillium</b> sp. (194)				
<b>Periconia circinata</b> (Mangin) Saccardo (0)				
QM 352	C+ W+	from R. W. Leukel	Roots of dwarf milo	Maryland USA
<b>Periconia pycnospora</b> Fresenius (1)				
QM 794 (JQMD 1137)	C+ W+	J. H. Miller	Tent	New Guinea
<b>Periconia</b> sp. (1)				
<b>Pestalotia adusta</b> group (1)				
QM 558 (Pan B-205A)	C+ W-	D. H. Linder	Canvas	Canal Zone
<b>Pestalotia bicolor</b> Ellis & Everhart (1)				
QM 664 (Pan B-11c)	C+ W+	D. H. Linder	Decayed leaf	Canal Zone
<b>Pestalotia copernica</b> (21)				
<b>Pestalotia dictaeta</b> Spegazzini (15)				
QM 698 (Fla F-176)	C+ W+	D. H. Linder	Bath towel	Florida USA
<b>Pestalotia palmarum</b> Cooke (1)				
<b>Pestalotia royenae</b> Guba (2)				
QM 531 (Pan H5F1A)	C+ W+	D. H. Linder	Textile sample	Canal Zone
<b>Pestalotia virgatula</b> Klebahn (46)				
QM 478 (Pan 57B5D)	C+ W-	D. H. Linder	Textile sample	Canal Zone
QM 479 (Pan 57B5BII)	C+ W+	"	Textile sample	Canal Zone
<b>Pestalotia</b> sp. (123)				
QM 2d	C+ W-	W. L. White	Cotton duck	Bougainville
QM 119b	C+ W-	"	Canvas	Canal Zone
QM 121L	C+ W-	"	Canvas	Canal Zone
QM 795 (JQMD 654)	C+ W-	G. W. Martin	Tent	New Guinea
QM 796 (Fla C-72)	C+ W+	D. H. Linder	Cotton cord	Florida USA
<b>Phialophora compactum</b> (0)				
QM 260 (NIH 8605)	C- W-		Human skin	Puerto Rico



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
<b>Phialophora fastigiata</b> (Lagerberg & Melin) Conant (0)				
QM 265 (NIH 8705)	C+ W-	E. Melin	Wood pulp	Sweden
<b>Phialophora jeanselmei</b> (Langeron) Emmons (0)				
QM 270 (NIH 8724)	C- W-		Hand	New York USA
<b>Phialophora lagerbergii</b> (Melin & Nannfeldt) Conant (0)				
QM 267 (NIH 8707)	C- W-	E. Melin	Wood pulp	Sweden
<b>Phialophora lingnicola</b> (Nannfeldt) Goidanich (30)				
<b>Phialophora melinii</b> (Nannfeldt apud Melin & Nannfeldt) Conant (0)				
QM 266 (NIH 8706)	C+ W+	E. Melin	Wood pulp	Sweden
<b>Phialophora obscura</b> (Nannfeldt apud Melin & Nannfeldt) Conant (0)				
QM 268 (NIH 8708)	C+ W-	E. Melin	Wood pulp	Sweden
<b>Phialophora pedrosoi</b> (0)				
QM 259 (NIH 8603)	C- W-		Human skin	Puerto Rico
QM 261 (NIH 8610)	C- W-		Human skin	Georgia USA
QM 262 (NIH 8615)	C- W-		Human skin	Louisiana USA
<b>Phialophora richardsiae</b> (Nannfeldt apud Melin & Nannfeldt) Conant (0)				
QM 263 (NIH 8703)	C+ W-	E. Melin	Wood pulp	Sweden
<b>Phialophora verrucosa</b> Medlar (0)				
QM 264 (NIH 8704)	C- W-		Wood pulp	Sweden
QM 269 (NIH 8723)	C- W-		Human Skin	Missouri USA
<b>Phialophora</b> sp. (1)				
QM 645 (JQMD 289)	C+ W+		Tent	New Guinea
<b>Phoma pigmentivora</b> Massee (0)				
QM 502	C+ W+		from R. K. S. Wood	England
<b>Phoma terrestris</b> Hansen ? (13)				
QM 106d	C+ W+		Canvas legging	New Guinea
QM 120k	C+ W+		Tarpaulin	Canal Zone
QM 797 (Fla D-92)	C+ W+		Cot fabric	Florida USA
<b>Phoma</b> sp. (36)				
QM 13e	C+ W+	W. L. White	Canvas	New Hebrides
QM 798 (JQMD 655)	W+	G. W. Martin	Tent	New Guinea
QM 799 (Fla B-30)	C+ W+	D. H. Linder	Cloth	Florida USA
Phomaceae (4)				
QM 831 (Reuszer 234)	C+ W+	Reese & Downing	Cotton duck	Canal Zone
QM 832 (Reuszer 156)	C+ W+	"	Cotton duck	Canal Zone
QM 857 (Reuszer 281)	C+ W+	"	Cotton duck	Canal Zone
QM 896 (Romano 3)	C+ W+	"	Cotton duck	Florida USA
<b>Phomopsis</b> sp. (6)				
QM 699 (Pan VC2A5B)	C+ W+	D. H. Linder	Textile sample	Canal Zone
Phycomycete (3)				
<b>Piedraia hortai</b> (Brumpt) Fonseca & Leao (0)				
<b>Placosphaeria</b> sp. (3)				
QM 700 (Pan B-238F)	C+ W+	D. H. Linder	Canvas	Canal Zone
<b>Platyglaea</b> sp. (1)				
QM 800 (JQMD 1223)	C- W-	G. W. Martin	Tent	New Guinea
<b>Pleurophoma</b> sp. (4)				
QM 701 (Pan 5A7B)	C+ W+	D. H. Linder	Textile sample	Canal Zone
<b>Pleurophomella</b> sp. (1)				



## FUNGI (continued)

Organism	Activity		Identified By	Substrate	Locality
<b>Polyporus sulfureus</b> (Bulliard) Fries (0)					
QM 509 (Fergus 24681-S)					
<b>Pseudocoprinus</b> sp. (5)					
QM 801 (JQMD 1060)	C+	W+	L. G. Isfort	Tent	New Guinea
QM 897 (JQMD 1143)	C+	W+	J. V. Harvey	Tent	New Guinea
<b>Pullularia pullulans</b> (deBary) Berkhout (140)					
QM 72c	C-	W+	W. L. White	Leather scabbard	New Guinea
QM 122b	C-	W-	"	Cotton duck	Canal Zone
QM 279c	C-	W-	"	Painted wood	Costa Rica
QM 338 (Reese 110)	C-	W-	"	Rutin	New Jersey USA
QM 802 (JQMD 364)	C-	W-	G. W. Martin	Belt	New Guinea
QM 803 (Fla B-37)	C-	W-	W. L. White	Cloth	Florida USA
<b>Pycnis</b> sp. (3)					
QM 618 (Pan B-209X)	C+	W+	D. H. Linder	Canvas	Canal Zone
<b>Pycnodothis</b> sp. (1)					
QM 702 (Pan 52A6CII)	C+	W+	D. H. Linder	Textile sample	Canal Zone
<b>Pycnosporium</b> sp. (3)					
QM 703 (Pan B-222D)	C+	W+	D. H. Linder	Canvas	Canal Zone
<b>Pyrenochaeta</b> sp. (9)					
QM 29b	C+	W+	W. L. White	Tarpaulin	Hawaii
QM 804 (JQMD 831)	C+	W+	G. W. Martin	Tent	New Guinea
QM 805 (JQMD 1146)			L. G. Isfort	Tent	New Guinea
QM 830 (Reuszer 200)	C+	W+	Reese & Downing	Cotton duck	Canal Zone
<b>Rhinotrichum</b> sp. (2)					
QM 806 (JQMD 395)	C+	W+	G. W. Martin	Blanket	New Guinea
QM 807 (JQMD 1208)	C+	W+	L. G. Isfort	Head band	New Guinea
<b>Rhizopus arrhizus</b> Fischer (17)					
QM 46c	C-	W+	V. M. Cutter	Tent rope	India
QM 187a	C-	W+	"	Rice	Utah USA
QM 808 (JQMD 538)	C-	W+		Shoe	New Guinea
QM 809 (JQMD 932)	C-	W+	V. M. Cutter	Tent rope	Guadalcanal
QM 839 (JQMD 208)	C-	W+	"	Tarpaulin	New Guinea
QM 500 (42 Chem. 8)	C-	W-	"	Jungle hammock	New Guinea
<b>Rhizopus nigricans</b> Ehrenberg (10)					
QM 387 (AMP 32)	C-	W+	D. H. Linder	Wireless set	New Guinea
QM 810 (Fla C-30)	C-	W+	"	Sewing string	Florida USA
QM 860 (Fla C-15)	C-	W+	"	Shower curtain	Florida USA
<b>Rhizopus oryzae</b> Went & Geerlings (4)					
QM 811 (JQMD 464)	C-	W+	V. M. Cutter	Sock	New Guinea
<b>Rhizopus</b> sp. (2)					
QM 231	C-	W-	W. L. White	Wool	Penna. USA
<b>Rhodoseptoria</b> sp. ? (1)					
QM 704 (Pan B-216A)	C+	W+	D. H. Linder	Canvas	Canal Zone
<b>Robillarda</b> sp. ? (1)					
QM 576 (Pan B-206A)	C+	W+	D. H. Linder	Canvas	Canal Zone



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
<b>Schizophyllum</b> sp. (1)				
QM 812 (JQMD 1181)	C— W+	J. V. Harvey	Tent	New Guinea
<b>Sclerotinia fructicola</b> (Winter) Rehm (0)				
QM 282 (Vrg. 38)	C— W—		Sweet cherry	New York USA
<b>Sclerotinia sclerotiorum</b> (Libert) Massee (0)				
QM 505	C— W—		from Dr. Shade	
<b>Sclerotium</b> sp. (3)				
QM 93a	C+ W+		Tarpaulin	New Guinea
QM 103e	C+ W+		Canvas tent	New Guinea
<b>Scopulariopsis brevicaulis</b> (Saccardo) Bainier (17)				
QM 609 (Pan BC-3)	C+ W+	K. B. Raper	Binocular reticule	Canal Zone
QM 813 (Fla C-28)	C+ W+	D. H. Linder	Sewing string	Florida USA
QM 814 (Fla C-35)	C+ W+	K. B. Raper	Sewing string	Florida USA
QM 815 (Fla F-90)	C+ W+	"	Cigarette	Florida USA
<b>Scopulariopsis repens</b> Bainier (3)				
QM 399 (AMP 69)	C+ W+	D. H. Linder	Canvas	Australia
<b>Sepedonium</b> sp. (4)				
QM 816 (JQMD 645)	C— W+	G. W. Martin	Case liner	Georgia USA
QM 817 (JQMD 908)	C+ W—	L. G. Isfort	Tent	New Guinea
<b>Septocylindrium</b> sp. (1)				
QM 667 (Pan B-654A)	C— W—	D. H. Linder	Textile sample	Canal Zone
<b>Septomyxa affinis</b> (Sherbakoff) Wollenweber (2)				
QM 40b	C+ W+	C. D. Sherbakoff	Canvas tent	India
<b>Septonema</b> sp. (1)				
QM 818 (Fla F-41)	C+ W+	D. H. Linder	Suspenders	Florida USA
<b>Septoria</b> sp. (2)				
QM 705 (Pan 52B41)	C+ W+	D. H. Linder	Textile sample	Canal Zone
<b>Sordaria fimicola</b> (Rabenhorst) Cesati & deNotaris (1)				
QM 707 (Pan 4CA10A)	C+ W+	D. H. Linder	Textile sample	Canal Zone
<b>Sordaria humana</b> (Fuckel) Winter (4)				
QM 819 (JQMD 144)	C+ W+	J. H. Miller	Textile sample	Columbia
QM 820 (JQMD 1185)	C+ W+	J. V. Harvey	Tent	New Guinea
<b>Sordaria macrospora</b> Auerswald (1)				
QM 821 (JQMD 1127)	W+	J. H. Miller	Tent	New Guinea
<b>Spegazzinia tessarthra</b> (Berkeley & Curtis) Saccardo (7)				
QM 371e	C+ W+	W. L. White	Cardboard	Florida USA
QM 373c	C+ W+	"	Cardboard	Florida USA
QM 840 (JQMD 657)	C+ W+	"	Tent	New Guinea
QM 841 (JQMD 935)	C+ W+	"	Tent	New Guinea
Sphaeropsidales (non-sporulating) (38)				
<b>Sphaeropsis</b> sp. (3)				
QM 46h	C— W—	W. L. White	Tent rope	India
QM 47a	C— W—	"	Wax paper	India
QM 104g	C— W—		Rubber boot	New Guinea
<b>Spicaria</b> sp. (3)				
QM 822 (JQMD 511)	C— W—	G. W. Martin	Shoe	New Guinea
QM 823 (JQMD 957)	C— W—	"	Shoe leather	Guadalcanal
QM 824 (JQMD 1036)	C— W—	L. G. Isfort	Canvas cover	Guadalcanal



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
<b>Sporochisma</b> sp. ? (2)				
QM 708 (Fla E-97)	C+ W—	D. H. Linder	Food cans	Florida USA
<b>Sporocybe</b> sp. ? (1)				
<b>Sporotrichum pruinosum</b> Gilman & Abbott (7)				
QM 168 (UP-215)	C+ W—	W. L. White	Photogr. film	
QM 244	C+ W—	"	Burlap	Penna. USA
QM 303	C+ W—	"	Burlap	Penna. USA
QM 591 (JQMD 490)	C+ W—	"	Raincoat	New Guinea
QM 593 (JQMD 545)	C+ W—	"	Shoe	New Guinea
QM 825 (JQMD 432)	C+ W—	"	Blanket	New Guinea
QM 826 (JQMD 1214)	C+ W—	"	Hand band	New Guinea
<b>Sporotrichum schenckii</b> Hektoen & Perkins (0)				
QM 257 (NIH 7109)	C— W—		Human leg	Guatemala
QM 258 (NIH 7021)	C— W—		Human arm	S. Africa
<b>Sporotrichum</b> sp. (30)				
QM 89a	C+ W—		Canvas legging	New Guinea
<b>Stachybotrys atra</b> Corda (20)				
QM 94d	C+ W+	W. L. White	Trousers	New Guinea
QM 102a	C+ W+	"	Leather band	New Guinea
QM 134b	C+ W+	"	Haversack	New Georgia
QM 341 (F. Meehan 637)	C+ W+	Meehan, conf. White	Pepper seed	Iowa USA
QM 395 (AMP 65)	C+ W+		Haversack	New Guinea
QM 827 (Fla B-10)	C+ W+	W. L. White	Tent	Florida USA
<b>Stachybotrys</b> sp. (7)				
QM 369a	C+ W+		Cardboard	New Guinea
QM 371b	C+ W+		Cardboard	Florida USA
QM 900 (Fla C-10)	C+ W+		Shower curtain	Florida USA
<b>Stemphylium botryosum</b> Wallroth (0)				
QM 544 (Schneidau 6770)	C+ W+		Air contaminant	Louisiana USA
<b>Stemphylium consortiale</b> (v. Thümen) Groves & Skolko (5)				
QM 41b	C— W+	W. L. White	Tent rope	India
QM 147c	C+ W+	J. W. Groves	Tent	New Georgia
<b>Stemphylium sarcinaeforme</b> (Cavara) Wiltshire (0)				
QM 283	C+ W—		Red clover	New York USA
<b>Stemphylium</b> sp. (10)				
QM 78b	C+ W+		Canvas tent	New Guinea
QM 367a	C+ W+	White & Downing	Cardboard	Florida USA
<b>Stereum</b> sp. ? (1)				
<b>Stilbum</b> sp. (1)				
QM 833 (JQMD 1085)	C+ W+	L. G. Isfort	Wool	Indiana USA
<b>Stysanus</b> sp. (1)				
QM 834 (JQMD 187)	C+ W+		Soil	Indiana USA
QM 905	C+ W+		Paper	From J. W. Sinden
<b>Syncephalastrum elegans</b> Marchal (3)				
QM 709 (Fla G-13)	C— W—	D. H. Linder	Suspenders	Florida USA



FUNGI (*continued*)

<i>Organism</i>	<i>Activity</i>		<i>Identified By</i>	<i>Substrate</i>	<i>Locality</i>
<b>Syncephalastrum nigricans</b> Vuillemin (3)					
QM 835 (Fla F-92)	C—	W—	D. H. Linder	Matches	Florida USA
<b>Syncephalastrum racemosum</b> (Cohn) Schroeter (18)					
QM 57a	C—	W—	V. M. Cutter	Leatherette	New Guinea
QM 82b	C—	W—	"	Haversack	New Guinea
QM 836 (Fla B-23)	C—	W—	D. H. Linder	Canteen cover	Florida USA
<b>Syncephalastrum</b> sp. (12)					
QM 837 (JQMD 349)	C—	W—		Belt	New Guinea
<b>Syncephalis</b> sp. (1)					
QM 838 (JQMD 933)	C—	W+	V. M. Cutter	Tarpaulin	New Guinea
<b>Synsporium</b> sp. (1)					
<b>Thamnidium elegans</b> Link (0)					
QM 545 (Schneidau 8140; ATCC 8997)	C—	W—			
<b>Thamnidium piriforme</b> (Bainier) Migula (0)					
QM 546 (Schneidau 8148; ATCC 8992)	C—	W—			
<b>Thielavia sepedonium</b> Emmons (10)					
QM 46a	C+	W+	C. W. Emmons	Tent	India
QM 47g	C+	W+	"	Wax paper	India
QM 842 (JQMD 963)	C+	W+		Tent	New Guinea
<b>Thielavia terricola</b> (Gilman & Abbott) Emmons (6)					
QM 214 (Emmons 5100; ATCC 1722)	C+	W+		Soil	Iowa USA
QM 843 (JQMD 1170)	C+	W+	C. W. Emmons	Tent	New Guinea
<b>Thielaviopsis basicola</b> (Berkeley & Broome) Ferraris (0)					
QM 547 (Schneidau 8500; ATCC 9853)	C—	W—			New Zealand
<b>Tilachlidium</b> sp. (1)					
QM 619 (Pan B-218EIII)	C+	W+	D. H. Linder	Canvas	Canal Zone
<b>Tolypomyria prasina</b> Preuss (1)					
<b>Torula</b> sp. (6)					
QM 216 (BOL D-45)	C—	W—		Jute canvas	India
QM 217 (BOL D-150)		W+		Webbing tape	
<b>Torulina</b> sp. (46)					
QM 710 (Fla D-51)	C+	W+	D. H. Linder	Cot straps	Florida USA
<b>Traversoa</b> sp. (1)					
<b>Trelesiella</b> sp. (1)					
QM 711 (Pan B-816AIII)	C+	W+	D. H. Linder	Textile sample	Canal Zone
<b>Trichoderma viride</b> Harz (363)					
QM 6a	C+	W+	W. L. White	Shelter half	Bougainville
QM 18a	C+	W+	"	Tentage	New Hebrides
QM 33a	C+	W+	"	Pistol belt	New Guinea
QM 46d	C+	W+	"	Tent rope	India
QM 63d		W+	"	Cotton rope	New Guinea
QM 844 (Fla C-55)	C+		D. H. Linder	Socks	Florida USA
<b>Trichoderma viride</b> Harz var. <b>Koningii</b> Oudemans (10)					
<b>Trichoderma</b> sp. (32)					
QM 219 (BOL D-166)	C+	W+		Parachute	



## FUNGI (continued)

Organism	Activity	Identified By	Substrate	Locality
<b>Trichophyton mentagrophytes</b> (Robin) Blanchard (0)				
QM 248 (NIH 640)	C- W+		Human foot	Georgia USA
QM 252 (NIH 666)	C- W+		Dog	Kansas USA
<b>Trichophyton rubrum</b> (Castellani) Sabouraud (0)				
<b>Trichophyton sulfureum</b> Sabouraud (0)				
QM 249 (NIH 651)	C- W+		Human scalp	Mexico
<b>Trichophyton tonsurans</b> Malmsten (0)				
QM 251 (NIH 662)	C- W+	C. W. Emmons	Human scalp	Guatemala
<b>Trichosporium</b> sp. (3)				
QM 846 (JQMD 836)	W+	L. G. Isfort	Tent	New Guinea
QM 847 (JQMD 1023)	C+ W+	"	Tent rope	Guadalcanal
<b>Trichothecium roseum</b> Link (3)				
QM 102e	C- W+		Leather liner	New Guinea
<b>Tritirachium dependens</b> Limber (1)				
QM 4g-2	C- W-	W. L. White	Leather shoes	Bougainville
<b>Tritirachium roseum</b> van Beyma (4)				
QM 164	C- W-		Veg. ivory button	Tropics
QM 285a	C- W-	W. L. White	Kapok pad	Penna. USA
QM 494	C- W-	Reese & Downing	Cotton & nylon	Ohio USA
<b>Tritirachium</b> sp. (5)				
<b>Tryblidopycnis</b> sp. (1)				
<b>Tubercularia</b> sp. (5)				
QM 848 (JQMD 198)	C+ W-	G. W. Martin	Tent	New Guinea
<b>Vermicularia</b> section (2)				
QM 712 (Pan B-607D)	C+ W+	D. H. Linder	Canvas	Canal Zone
<b>Verticicladium</b> sp. (2)				
<b>Verticillium dahliae</b> Klebahn (0)				
<b>Verticillium malthousei</b> Ware (0)				
QM 515	C- W+	E. T. Reese	Mushroom	Penna. USA
<b>Verticillium niveostratosum</b> Lindau (1)				
<b>Verticillium</b> sp. (26)				
QM 849 (JQMD 310)	C- W-		Belt	New Guinea
QM 851 (Fla B-59)	C+ W+	W. C. Snyder	Tent	Florida USA
QM 852 (Fla C-7)	C+ W+	"	Web belt	Florida USA
<b>Volutella</b> sp. (1)				
<b>Wardomyces anomala</b> Brooks & Hansford (0)				
QM 903 (Illman-V-135)	C- W-			
<b>Xenosporium</b> sp. (2)				
<b>Zygodemus</b> sp. (3)				
QM 853 (JQMD 865)	C+ W+		Tent	New Guinea
QM 854 (JQMD 1114)	C+ W+		Tent	New Guinea
QM 855 (JQMD 1174)	C+ W+		Tent	New Guinea
<b>Zygorrhynchus moelleri</b> Vuillemin (1)				
QM 856 (Fla A-29)	C- W-		Soil sample	Florida USA
<i>Mycelia sterila</i> (523)				
Undetermined (163)				



## BACTERIA, ACTINOMYCETES AND YEASTS

Organism	Activity	Identified By	Substrate	Locality
<i>Acetobacter suboxydans</i> Kluyver and deLeeuw. (0)				
QM B1473 Army Medical School 621				
<i>Actinomyces albus</i> Krainsky (0)				
QM B1478 Bur. Nutr. & Home Ec., 502	W+	S. Waksman		
<i>Actinomycete</i> , unidentified (53)				
QM B76	C—	H. W. Reuszer	Dyed duck	Canal Zone
QM B157	C+	"	Dyed duck	Canal Zone
QM B642	C—	"	Blankét	New Guinea
QM B668	C—	"	Raincoat	New Guinea
QM B681	C—	"	Socks	New Guinea
QM B814	C+	E. T. Reese	Tarpaulin	New Guinea
QM B937	C—	H. W. Reuszer	Haversack	New Guinea
QM B957	C—	"	Cotton rope	New Guinea
QM B1058	C—	"	Shoe	New Guinea
QM B1086	C+	"	Shoe	New Guinea
QM B1359	C+	"	Cot, canvas	Florida USA
QM B1477	W+	H. S. Levinson	Wool, buried	Penna. USA
QM B1479		M. H. Downing	Wool, buried	Penna. USA
<i>Aerobacillus (schuyllkilliensis)</i> Eisenberg (0)				
QM B1461 J. T. Baker Chemical Co. B-20		G. M. Eisenberg		
<i>Aerobacter aerogenes</i> (Kruse) Beijerinck (0)				
QM B1463 (NRRL B562)				
<i>Alcaligenes bookeri</i> (Ford) Bergey et al (0)				
QM B1484 ATCC 9128	W—			
<i>Alcaligenes faecalis</i> Castellani and Chalmers (0)				
QM B1483 ATCC 8749	W—			
<i>Bacillus alvei</i> Cheshire and Cheyne (3)				
QM B1006	C—	N. R. Smith	Trousers	New Guinea
QM B1087		"	Tent flap	New Guinea
QM B1105	C—	"	Shoe	New Guinea
<i>Bacillus amylolyticus</i> Kellerman and McBeth (0)				
QM B529 N. R. Smith 120	C—			
<i>Bacillus brevis</i> (Flügge) Migula emend. Ford (13)				
QM B470	W+	N. R. Smith	Treated canvas	Canal Zone
QM B842	C— W—	"	Tentage	New Guinea
QM B1080	C—	"	Shoe	New Guinea
QM B1334		"	Elastic covering	Florida USA
<i>Bacillus cereus</i> Frankland and Frankland (112)				
QM B28	W—	N. R. Smith	Tent	Canal Zone
QM B42A	W+	"	Canvas	Canal Zone
QM B387	W+	"	Decayed wood	Canal Zone
QM B476	C— W+	"	Tent	Canal Zone
QM B826	C— W+	"	Shoe	India
QM B927	W—	"	Shoe	New Guinea
QM B1079		"	Shoe	New Guinea
QM B1286		"	Socks	Florida USA



BACTERIA, ACTINOMYCETES AND YEASTS (*continued*)

Organism	Activity	Identified By	Substrate	Locality
<i>Bacillus cereus</i> var. <i>mycoides</i> Flügge (57)				
QM B479	W+	N. R. Smith	Soil	Colombia
QM B610	C- W-	"	Tarpaulin	New Guinea
QM B743	C- W+	"	Tent	New Hebrides
QM B825	C- W-	"	Shoe	India
QM B898	C- W+	"	Scabbard	New Guinea
QM B964	W+	"	Knapsack	New Guinea
QM B1081		N. R. Smith	Shoe	New Guinea
QM B1405		"		Canal Zone
<i>Bacillus circulans</i> Jordan, emend. Ford (11)				
QM B353	C-	N. R. Smith	Canvas	Canal Zone
QM B629	C-	"	Belt	New Guinea
QM B857	C- W+	"	Kit, Canvas	New Guinea
QM B1292		"	Socks	Florida USA
QM B1335		"	Elastic cover	Florida USA
QM B1376		"	Cotton bag	Florida USA
QM B1470 VD Research Laboratory M-14		C. McLeod	Produces antibiotic	
<i>Bacillus firmus</i> Werner (13)				
QM B172	C- W-	N. R. Smith	Canvas	Canal Zone
QM B647	C-	"	Trousers	New Guinea
QM B666	W+	"	Raincoat	New Guinea
QM B719	C-	"	Shoe	Guadalcanal
QM B824	W-	"	Rope	India
QM B1124		"	Tarpaulin	New Guinea
<i>Bacillus firmus-circulans intermediates</i> (5)				
QM B787	W-	N. R. Smith	Tentage	Hawaii
QM B988	C- W-	"	Tentage	New Guinea
<i>Bacillus megatherium</i> deBary (188)				
QM B603	W-	N. R. Smith	Tent	New Guinea
QM B705	W+	"	Tent	New Guinea
QM B773	W+	"	Rope	Russell Is.
QM B793	W+	"	Canvas bag	New Guinea
QM B844	C- W+	"	Leather	New Guinea
QM B975	W-	"	Trousers	New Guinea
QM B980	W+	"	Helmet liner	New Guinea
QM B1193		"	Rope	Florida USA
QM B1227		"	Precoated can	Florida USA
QM B1276		"	Shelter half	Florida USA
<i>Bacillus polymyxa</i> (Prazmowski) Migula (4)				
QM B768	C-	N. R. Smith	Tarpaulin	New Hebrides
QM B995	C-	"	Rubber boot	New Guinea
QM B1100	C-	"	Khaki shirt	New Guinea
<i>Bacillus pumilus</i> Gottheil (66)				
QM B21	W-	N. R. Smith	Tentage	Canal Zone
QM B170	W+	"	Canvas	Canal Zone
QM B746	W+	"	Tent	New Hebrides
QM B803	W+	"	Pistol belt	New Guinea
QM B846	W+	"	Leather	New Guinea
QM B910	W+	"	Cover, cellulose	New Guinea



BACTERIA, ACTINOMYCETES AND YEASTS (*continued*)

Organism	Activity	Identified By	Substrate	Locality
QM B1309		"	Canvas bag	Florida USA
QM B1383		"	Cotton socks	Florida USA
<i>Bacillus sphaericus</i> Neide (7)				
QM B41		N. R. Smith	Canvas	Canal Zone
QM B891	C- W-	"	Shoe	New Guinea
QM B1118	C-	"	Tarpaulin	New Guinea
QM B1152	C-	"	Suspender straps	New Guinea
<i>Bacillus sphaericus</i> var. <i>fusiformis</i> Gottheil (17)				
QM B784	C- W-	N. R. Smith	Shoe	Hawaii
QM B811	W-	"	Legging	New Guinea
QM B873	W-	"	Web strap	New Guinea
QM B896		"	Glove, canvas	New Guinea
QM B1082		"	Shoe	New Guinea
<i>Bacillus subtilis</i> Cohn, emend. Prazmowski (55)				
QM B639	W+	N. R. Smith	Socks	New Guinea
QM B655	W-	"	Socks	New Guinea
QM B742	C- W+	"	Canvas roll	New Guinea
QM B778	W+	"	Grey netting	Russell Is.
QM B835	W+	"	Tent lines	Hawaii
QM B845	C- W-	"	Leather	New Guinea
QM B922	W+	N. R. Smith	Tent	New Guinea
QM B942	C- W+	"	Shoe	New Guinea
QM B952	W+	"	Tentage	New Guinea
QM B1228		"	Precoated can	Florida USA
QM B1230		"	Lacquered can	Florida USA
<i>Bacteria</i> unidentified (435; for the most part gram-negative to gram-variable rods)				
QM B54	C+		Tentage	Canal Zone
QM B123	C+		Cotton duck	Canal Zone
QM B142	C+		Cotton duck	Canal Zone
QM B230	C+		Cotton duck	Canal Zone
QM B240			Cotton duck	Canal Zone
QM B275	C+		Cotton duck	Canal Zone
QM B283	C+		Cotton duck	Canal Zone
QM B318	C+		Cotton duck	Canal Zone
QM B319	C+		Cotton duck	Canal Zone
QM B1469			Liquefies cellosize (Hydroxy-ethyl cellulose)	Penna. USA
QM B1471			Rhotex-QS L-200 (Rohm & Haas)	Penna. USA
<i>Cellulomonas biazotea</i> (Kellerman) Bergey et al. (0)				
QM B525	N. R. Smith 127 C+			
<i>Cellulomonas cellasea</i> (Kellerman and McBeth) Bergey et al. (0)				
QM B526	N. R. Smith 124			
<i>Cellulomonas fimi</i> McBeth and Scales (0)				
QM B527	N. R. Smith 133 C+			
<i>Cellulomonas flavigena</i> (Kellerman and McBeth) Bergey et al. (0)				
QM B528	N. R. Smith 134 C+			
<i>Cellvibrio fulvus</i> Stapp and Bortels (2)				
QM B18	C+	W. C. Haynes	Soil	Canal Zone
QM B102	C+	"	Cotton duck	Canal Zone



## BACTERIA, ACTINOMYCETES AND YEASTS (continued)

Organism	Activity	Identified By	Substrate	Locality
<i>Cellvibrio vulgaris</i> Stapp and Bortels (11)				
QM B1	C+	W. C. Haynes	Duck, in soil	Canal Zone
QM B2	C+	"	Duck, in soil	Canal Zone
QM B4	C+	"	Duck, in soil	Canal Zone
QM B6	C+	"	Muslin	Canal Zone
QM B8	C+	"	Soil	Canal Zone
QM B9	C+	"	Soil	Canal Zone
QM B12	C+	"	Soil	Canal Zone
<i>Cellvibrio</i> sp. (3)				
QM B89		H. W. Reuszer	Tarpaulin	Canal Zone
QM B93		"	Tarpaulin	Canal Zone
<i>Corynebacterium</i> sp. (12)				
QM B487	C+	H. W. Reuszer	Sling, rifle	New Guinea
QM B493	C+	"	Tentage	New Hebrides
QM B503	C+	"	Leggings	New Guinea
QM B509	C+	"	Haversack	New Guinea
QM B514	C+	"	Tent	New Guinea
QM B521		"	Tent rope	New Guinea
<i>Escherichia coli</i> (Migula) Castellani and Chalmers (0)				
QM B1457			Strain for reduction of dihydro-ascorbic acid.	
QM B1465 J. T. Baker B-44(ATCC 9673)				
<i>Lactobacillus arabinosus</i> Fred, Peterson and Anderson (0)				
QM B1475 Army Medical School 31-0-1				
<i>Lactobacillus casei</i> (Orla-Jensen) Holland (0)				
QM B1474 Army Medical School 31-E-1				
<i>Lactobacillus fermenti</i> Beijerinck (0)				
QM B1476 Army Medical School 31-1L-1				
<i>Micrococcus pyogenes</i> var. <i>aureus</i> (Rosenbach) Zopf (0)				
QM B1458		G. F. Reddish	FDA strain for phenol coefficient test.	Penna. USA
<i>Micrococcus</i> sp. (23)				
QM B30			Tentage	Canal Zone
QM B296	C—		Cotton duck	Canal Zone
QM B398	C—		Lens	Canal Zone
QM B454			Cotton duck	Canal Zone
QM B821	C—		Tenting	India
<i>Proteus vulgaris</i> Hauser (0)				
QM B1464 J. T. Baker B-31 (ATCC 7246) W—				
<i>Pseudomonas aeruginosa</i> (Schroeter) Migula (0)				
QM B1468	W—	H. S. Levinson	Contaminant on agar plate.	
QM B1485		P. Kopper	Creatinine decomposer; no pyocyanin produced.	
<i>Pseudomonas elongata</i> Humm (0)				
QM B1472		H. Humm	Agar liquefier. Marine source	
<i>Pseudomonas</i> sp. (1)				
QM B1482	W+	H. S. Levinson	Wool	Penna. USA



BACTERIA, ACTINOMYCETES AND YEASTS (*continued*)

Organism	Activity	Identified By	Substrate	Locality
<i>Rhodotorula bronchialis</i> (Ciferri and Redaelli) Lodder (0)				
QM B1480		T. Sproston	Air contaminant	Vermont USA
<i>Saccharomyces lactis</i> (0)				
QM B1450			Bakers' yeast	Bavaria
QM B1452			Bakers' yeast	Bavaria
QM B1454			Bakers' yeast	Bavaria
<i>Salmonella paratyphi</i> (Kayser) Castellani and Chalmers (0)				
QM B1459 (ATCC 9150)		P. C. Norman	Carrier strain	Illinois USA
<i>Salmonella typhosa</i> (Zopf) White (0)				
QM B1460			FDA strain for phenol coefficient test.	Penna. USA
<i>Serratia marcescens</i> Bizio (0)				
QM B1455			From M. Landy, Wyeth Drug Co.	Phila. USA
QM B1466 (ATCC 990)				
<i>Sporocytophaga myxococcoides</i> (Krzemieniewska) Stanier (23)				
QM B482 USDA, Gray's strain				
	C+			
QM B490	C+		Trousers	New Guinea
QM B492		H. W. Reuszer	Shoe	New Guinea
QM B497	C+	"	Tenting	Italy
QM B506	C+	"	Canteen cover	New Guinea
QM B511		"	Trousers	New Guinea
QM B517	C+	"	Suspender straps	New Guinea
<i>Sporobolomyces salmonicolor</i> (0)				
QM B1488 ATCC 623				
<i>Streptococcus lactis</i> (Lister) Löhnis (0)				
QM B1467 J. T. Baker B-78 (NRRL B446)				
<i>Torula sphaerica</i> (0)				
QM B1489 ATCC 2504				
<i>Torula utilis</i> (0)				
QM B1487 ATCC 8206				
<i>Trichosporon asteroides</i> (0)				
QM B1486 ATCC 4155				





Reese, E.T. et al. 1950. "Quartermaster Culture Collection." *Farlowia :a journal of cryptogamic botany* 4(1), 45–86. <https://doi.org/10.5962/p.315956>.

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