

LIST OF NONRESTRICTED MICROORGANISMS

October 25, 2001

SCIENTIFIC NAME

FUNGI

Absidia coerulea
Absidia corymbifera
Absidia ramosa
Absidia spinosa
Acremonium falciforme
Acremonium kiliense
Acremonium recifei
Acremonium vitis
Agaricus bitorquis
Agaricus bisporus
Agaricus campestris
Agaricus sp. (Portabello mushroom)
Alternaria alternata
Alternaria geophila
Apiotrichum humicola
Arthrobotrys - all species in genus
Aspergillus candidus
Aspergillus clavatus
Aspergillus cremeus
Aspergillus flavipipes
Aspergillus flavus
Aspergillus fumigatus
Aspergillus glaucus
Aspergillus nidulans
Aspergillus niger
Aspergillus ochraceus
Aspergillus restrictus
Aspergillus terreus
Aspergillus ustus
Aspergillus versicolor
Aspergillus wentii
Asteromyces cruciatus
Aureobasidium pullulans
Auricularia polytricha

Bipolaris hawaiiensis
Blastomyces dermatitidis
Blastoschizomyces capitatus
Boletus californicus
Boletus granulatus
Boletus luteus

SCIENTIFIC NAME

Boletus variegatus
Byssochlamys fulva

Candida albicans
Candida famata
Candida geochares
Candida glabrata
Candida humicola
Candida kefyr
Candida krusei
Candida lipolytica
Candida lusitaniae
Candida parapsilosis
Candida pseudotropicalis
Candida quilliermondii
Candida rugosa
Candida stellatoidea
Candida tropicalis
Candida zeylanoides
Candelabrella - all species in genus
Chaetomium globosum
Chrysosporium keratinophilum
Chrysosporium liquorum
Chrysosporium pruinatum
Cladosporium bantianum
Cladosporium carrionii
Cladosporium trichoides
Collybia velutipes
Cryptococcus albidus
Cryptococcus gastricus
Cryptococcus huminocola
Cryptococcus laurentii
Cryptococcus luteolus
Cryptococcus neoformans
Cryptococcus terreus
Cryptococcus uniguttulatus
Cunninghamella bertholletiae
Cunninghamella blakesleena
Cunninghamella elegans
Curvularia geniculata
Curvularia lunata

Dactylaria - all species in genus
Dactylella - all species in genus
Dendryphiella saliva
Dipodascus uninucleatus
Drechslera hawaiiensis
Drechslera rostrata
Drechslera spicifera

SCIENTIFIC NAME

Entrophospora columbiana
Epicoccum nigrum
Epidermophyton floccosum
Eremothecium ashbyii
Exophiala dermatitidis
Exophiala jeanselmei
Exophiala spinifera
Exophiala werneckii
Exserohilum mcginnisii
Exserohilum rostratum

Filobasidiella neoformans
Fonsecaea compacta
Fonsecaea pedrosoi

Geotrichum candidum
Geotrichum penicillatum
Gigaspora margarita
Gliocladium roseum
Glomus brasilianum
Glomus clarum
Glomus deserticola
Glomus etunicatum
Glomus fasciculatum
Glomus intraradices
Glomus monosporus
Glomus mosseae
Gymnoascus reesi

Hansenula anomala
Hansenula pollymorpha
Hansenula wingei
Humicola alopallonella

Issatchenkia orientalis

Lentinus edodes

Malassezia furfur
Malassezia pachydermatis
Malbranchea cinnamomea
Malbranchea pulchella
Malbranchea sulfurea
Marasmius oreades
Microsporium - all species in genus
Monosporium apiospermum
Mortierella alpina
Mucor hiemalis

SCIENTIFIC NAME

Mucor pusillus
Mucor ramannianus
Mucor ramosissimus

Neurospora crassa
Neurospora tetrasperma
Nigrospora oryzae

Paecilomyces - all species in genus
Penicillium - all species in genus
Phaeoannellomyces werneckii
Phialophora bubakii
Phialophora parasitica
Phialophora repens
Phialophora richardsiae
Phialophora verrucosa
Phoma glomerata
Phoma hibernica
Phoma oculo-hominis
Phycomyces blakesleeanus
Pichia canadensis
Pichia pastoris
Pisolithus tinctorius
Pleurotus cystidiosus
Pleurotus djamor
Pleurotus ostreatus
Pleurotus sajor-caju
Pseudallescheria boydii

Rhizopus stolonifer
Rhodosporidium - all species in genus
Rhodotorula - all species in genus
Riessia semiophora

Saccharomyces - all species in genus
Saccharomycodes ludwigii
Scedosporium - all species in genus
Scopulariopsis brevicaulis
Scopulariopsis brumptii
Sepedonium - all species in genus
Sordaria fimicola
Sporobolomyces salmonicolor
Sporotrichum pruinosum
Sporothrix schenckii
Stemphylium sarcinaeforme
Syncephalastrum - all species in genus
Stropharia rugosoannulata

Torulopsis - all species in genus

SCIENTIFIC NAME

Trichoderma harzianum
Trichoderma virens
Trichoderma viridae
Trichophyton - all species in genus
Trichosporon - all species in genus
Trichothecium roseum

Ulocladium atrum

Varicosporina ramulosa
Verticillium graphii
Volvariella volvacea

Wangiella dermatitidis

Yarrowia lipolytica

Zygosaccharomyces bailii
Zygosaccharomyces bisporus
Zygosaccharomyces rouxii

SLIME MOLD

Dictyostelium discoideum
Physarum polycephalum

BACTERIA

Acetobacter aceti
Acetobacter oxydans
Acetobacter suboxydans
Achromobacter fischeri
Acidaminococcus fermentans
Acidovorax delafieldii
Acidovorax facilis
Acinetobacter baumannii
Acinetobacter calcoaceticus
Acinetobacter haemolyticus
Acinetobacter lwofii
Actinobacillus pleuropneumoniae
Actinobacillus suis
Actinomadura madurae
Actinomadura pelletieri
Actinomyces odontolyticus
Actinomyces pyrogenes

SCIENTIFIC NAME

Aerobacter aerogenes
Aerobacter alroynis
Aerococcus viridans
Aeromonas caviae
Aeromonas hydrophila
Aeromonas sobria
Aeromonas veronii
Alcaligenes acidocaldarius
Alcaligenes acidoterrestris
Alcaligenes cupidus
Alcaligenes cycloheptanicus
Alcaligenes dispar
Alcaligenes eutrophus
Alcaligenes faecalis
Alcaligenes viscolactis
Alcaligenes viscosus
Alteromonas putrefaciens
Arcanobacterium haemolyticum
Arizona hinshawii
Arthrobacter agalis
Arthrobacter citreus
Arthrobacter crystallopoietes
Arthrobacter globiformis
Arthrobacter marinus
Arthrobacter paraffineus
Azotobacter - all species in genus

Bacillus - all species in genus except:

B. anthracis
Bacteroides asaccharolytica
Bacteroides gingivalis
Bacteroides intermedia
Bacteroides loeschii
Bacteroides distasonis
Bacteroides fragilis
Bacteroides incomminus
Bacteroides levii
Bacteroides melaninogenica
Bacteroides ovatus
Bacteroides succinogenes
Bacteroides thetaiotaomicron
Bacteroides uniformis
Bacteroides ureolyticus
Bacteroides vulgatus
Beggiatoa alba
Beneckea hyperoptica
Bordetella bronchiseptica
Bordetella parapertussis

SCIENTIFIC NAME

Bordetella pertussis
Borrelia burgdorferi
Branhamella (= *Moraxella*) *catarrhalis*
Bradyrhizobium - all species in genus
Brevibacterium lipolyticum
Burkholderia cepacia
Butyribacterium rettgeri

Campylobacter - all species in genus
Caryophanon latum
Cellulomonas biazotea
Cellulomonas pusilla
Chlamydia - all species in genus except:
 C. psittaci avian strains
Chromatium warmingii
Chromobacterium violaceum
Citrobacter (all species in genus)
Clostridium bifermentans
Clostridium butyricum
Clostridium chauvoei
Clostridium difficile
Clostridium equi
Clostridium felsineum
Clostridium flavum
Clostridium haumanii
Clostridium histolyticum
Clostridium innocuum
Clostridium novyi
Clostridium pasteurianum
Clostridium perfringens
Clostridium ramosum
Clostridium rubrum
Clostridium sordellii
Clostridium sporogenes
Clostridium tertium
Clostridium tetani
Clostridium thermosaccharolyticum
Coccobacillus macrouai
Comamonas testosteroni
Corynebacterium amycolatum
Corynebacterium diphtheriae
Corynebacterium haemolyticum
Corynebacterium hoffmanni
Corynebacterium jeikeium
Corynebacterium pseudodiphthericum
Corynebacterium xerosis
Cunninghamella - all species in genus
Cytophaga fermentans
Cytophaga johnsonae

SCIENTIFIC NAME

Desulfovibrio desulfuricans

Edwardsiella tarda

Eikenella corrodens

Enterobacter - all species in genus

Enterococcus avium

Enterococcus durans

Enterococcus faecalis

Enterococcus faecium

Enterococcus hirae

Erwinia dissolvens

Erysipelothrix - all species in genus

Escherichia coli

Eubacterium lentum

Flavobacterium multivorum

Flavobacterium meningosepticum

Flavobacterium odoratum

Fusobacterium mortiferum

Fusobacterium necrophorum

Fusobacterium nucleatum

Gardnerella vaginalis

Haemophilus ducreyi

Haemophilus influenzae

Haemophilus parahaemolyticus

Haemophilus parainfluenzae

Haemophilus paraphrophilus

Haemophilus parasuis

Haemophilus sommus

Hafnia - all species in genus

Helicobacter - all species in genus

Hydrogenomonas facilis

Hydrogenomonas ruhlandii

Hydrogenophaga flava

Hydrogenophaga palleronii

Hydrogenophaga pseudoflava

Hyphomicrobium neptunium

Jonesia - all species in genus

Kingella kingae

Klebsiella - all species in genus

Kurthia zopfii

Lactobacillus - all species in genus

Lactococcus cremoris

Lactococcus lactis

SCIENTIFIC NAME

Leclercia adecarboxylata
Legionella - all species in genus
Leptospira - all species in genus
Leptotrichia buccalis
Leuconostoc citrovorum
Leuconostoc cremoris
Leuconostoc mesenteroides
Listeria - all species in genus

Methanobacterium omelianskii
Methanomonas methylovora
Micrococcus - all species in genus
Micromonospora chalcea
Micromonospora echinospora
Micromonospora fusca
Micromonospora parva
Micromonospora purpurea
Micromonospora vulgaris
Moraxella catarrhalis
Moraxella ureolytica
Moraxella urethralis
Moraxella osloensi
Morganella morganii
Mycobacterium - all species in genus except:
 M. avium
 M. bovis
 M. tuberculosis
Mycoplasma laidlawii
Myroides odoratus
Myxococcus xanthus

Neisseria cinerea
Neisseria flavascens
Neisseria gonorrhoeae
Neisseria lactamica
Neisseria meningitidis
Neisseria mucosa
Neisseria perflava
Neisseria sicca
Neisseria subflava
Nocardia asteroides
Nocardia brasiliensis
Nocardia coeliaca
Nocardia corallina
Nocardia erythropolis
Nocardia otitidiscaviarum
Nocardia peraffinae
Nocardia rubra
Nocardiopsis dassonvillei

SCIENTIFIC NAME

Nitrobacter - all species in genus
Nitrococcus - all species in genus
Nitrosococcus - all species in genus
Nitrosomonas - all species in genus

Oerskovia xanthineolytica
Oligella ureolytica
Oligella urethralis

Pasteurella aerogenes
Pasteurella haemolytica
Pasteurella multocida
Pediococcus acidilactici
Peptococcus glycinophilus
Peptococcus saccharolyticus
Peptostreptococcus anaerobium
Peptostreptococcus elsdonii
Peptostreptococcus magnus
Peptostreptococcus micros
Photobacterium - all species in genus
Plesiomonas shigelloides
Porphyromonas asaccharolytica
Porphyromonas gingivalis
Porphyromonas levii
Prevotella intermedia
Prevotella loeschii
Prevotella melaninogenica
Propionibacterium acidipropionici
Propionibacterium acnes
Propionibacterium freudenreichii
Propionibacterium jensenii
Propionibacterium pentosaceum
Propionibacterium shermanii
Propionibacterium technicum
Propionibacterium thoenii
Proteus mirabilis
Proteus penneri
Proteus rettgeri
Proteus vulgaris
Providencia alcalifaciens
Providencia rettgeri
Providencia stuartii
Pseudomonas aeruginosa
Pseudomonas alcaligenes
Pseudomonas cepacia
Pseudomonas citronellolis
Pseudomonas delafieldii
Pseudomonas denitrificans
Pseudomonas facilis

SCIENTIFIC NAME

Pseudomonas flava
Pseudomonas fluorescens
Pseudomonas lucifera
Pseudomonas nactus
Pseudomonas nigrifaciens
Pseudomonas oleovorans
Pseudomonas palleronii
Pseudomonas pickettii
Pseudomonas pseudoalcaligenes
Pseudomonas pseudoflava
Pseudomonas putida
Pseudomonas saccharophila
Pseudomonas stutzeri
Pseudomonas testosteroni

Ralstonia pickettii
Rhizobium - all species in genus
Rhodobacter sphaeroides
Rhodococcus - all species in genus
Rhodopseudomonas palustris
Rhodopseudomonas sphaeroides
Rhodospirillum rubrum
Rothia dentocariosa
Ruminococcus albus
Ruminococcus bromii
Ruminococcus flavefaciens
Ruminococcus rumen

Salmonella - all species in genus except:
 S. typhi
Saprospira grandis
Sarcina aurantiaca
Sarcina flava
Sarcina lutea
Sarcina sublfava
Sarcina ureae
Sarcina ventriculi
Selenomonas -all species in genus
Serratia - all species in genus
Shewanella putrefaciens
Shigella - all species in genus
Sorangium cellulosum
Sphaerotilus natans
Sphingobacterium multivorum
Sphingobacterium serpens
Spirillum volutans
Spirochaeta cytophaga
Sporocythophaga myxococcoides
Staphylococcus -all species in genus

SCIENTIFIC NAME

Stenotrophomonas maltophilia
Streptococcus - all species in genus
Streptomyces - all species in
Succinimonas - all species in genus
Succinivibrio - all species in genus

Thiobacillus dinitrificans
Thiobacillus thioparus
Treponema zuelzeriae

Ureaplasma urealyticum

Veillonella alcalescens
Veillonella parvula
Vibrio adaptatus
Vibrio alginolyticus
Vibrio alginosus
Vibrio anguillarum
Vibrio cholerae
Vibrio fisheri
Vibrio haloplanktis
Vibrio marinagilis
Vibrio marino vulgaris
Vibrio marinofulvus
Vibrio marinus
Vibrio noctiluca
Vibrio parahemolyticus
Vibrio vulnificus
Vitreoscilla stercoraria

Xanthomonas maltophilia

Yersinia enterocolitica
Yersinia kristensenii

VIRUSES

adenovirus - human, all types

coxsackievirus
cytomegalovirus

SCIENTIFIC NAME

echovirus
 enterovirus
 Epstein-Barr virus

 hepatitis virus - types A,B,C,D,E
 herpes simplex virus - types 1 and 2
 herpes varicella zoster virus
 human immunodeficiency virus - types 1 and 2
 human papillomavirus

 influenza virus - types A,B,C

 measles (rubeola) virus
 mumps virus

 parainfluenza virus - types 1,2,3,4
 poliovirus - all strains except:
 poliovirus wild-type strain

 respiratory syncytial virus
 rhinovirus
 rotavirus
 rubivirus (rubella)

 vaccinia virus
 varicella-zoster virus

BACTERIOPHAGE
 (Hosts of Bacteriophage)

Acidovorax facilis
Actinomyces viscosus
Agrobacterium radiobacter
Agrobacterium tumefaciens
Alteromonas espejiana
Alteromonas haloplanktis
Anabaena - all species in genus
Asticcacaulis excentricus
Azotobacter vinelandii

Bacillus brevis
Bacillus cereus
Bacillus firmus
Bacillus licheniformis
Bacillus megaterium
Bacillus mycoides

SCIENTIFIC NAME

Bacillus polymyxa
Bacillus pumilus
Bacillus stearothermophilus
Bacillus subtilis
Bacillus thuringiensis
Bacteroides fragilis
Brochothrix thermosphacta
Brucella abortus
Brucella melitensis

Campylobacter coli
Campylobacter jejuni
Caulobacter bacteroides
Caulobacter crescentus
Caulobacter fusiformis
Clostridium sporogenes
Comamonas acidovorans
Corynebacterium - all species in genus
Cytophaga marinoflava

Enterobacter cloacae
Enterococcus faecalis
Enterococcus faecium
Erwinia amylovora
Erwinia ananas
Escherichia coli

Klebsiella pneumoniae

Lactobacillus - all species in genus
Lactococcus lactis
Listeria monocytogenes

Micrococcus luteus
Mycobacterium - all species in genus

Nocardioides albus
Nostoc - all species in genus

Plectonema boryanum
Propionibacterium acnes
Pseudomonas aeruginosa
Pseudomonas fluorescens
Pseudomonas fragi
Pseudomonas putida
Pseudomonas syringae

Rhizobium leguminosarum

SCIENTIFIC NAME

Rhodospirillum rubrum

Saccharopolyspora rectivirgula

Salmonella choleraesuis

Salmonella typhimurium

Serratia marcescens

Shigella - all species in genus

Staphylococcus aureus

Streptococcus - all species in genus

Streptomyces griseus

Synechococcus - all species in genus

Thermoactinomyces candidus

Vibrio - all species in genus

Xanthomonas campestris

Xanthomonas oryzae

Yersinia pestis

Yersinia pseudotuberculosis

ALGAE

Chaetoceros - all species in genus except:

C. convolutus

C. concavicornis

Characiosiphon - all species in genus

Chilomonas oblonga

Chilomonas paramecium

Chlorella - all species in genus

Cyanophora paradoxis

Derbesia - all species in genus

Dunaliella - all species in genus

Gonium - all species in genus

Isochrysis - all species in genus

Monochrysis - all species in genus

Nannochloropsis - all species in genus

Ochromonas - all species in genus

Palmaria mollis

Pandorina - all species in genus

SCIENTIFIC NAME

Peranema granulifera
Peranema trichophorum
Prototheca - all species in genus

Rhodochorton purpureum

Skeletonema - all species in genus
***Tetraselmis* - all species in genus**
Thalassiosira - all species in genus

Volvox - all species in genus

PROTOZOA

Amoeba proteus
Arcella - all species in genus

Blepharisma - all species in genus

Chaos carolinensis
Chilomastix mesnili
Colpidium - all species in genus

Didinium - all species in genus
Diffugia lobostoma
Dileptus - all species in genus

Endolimax nana
Entamoeba coli
Entamoeba gingivalis
Entamoeba hartmanii
Enteromonas hominis
Euplotes - all species in genus

Iodamoeba buetschlii

Paramecium aurelia
Paramecium bursaria
Paramecium caudatum
Paramecium micronucleatum
Paramecium multimicronucleatum

Retortamonas intestinalis

Spirostomum - all species in genus
Stentor - all species in genus

SCIENTIFIC NAME

Tetrahymena pyriformis

Trichomonas hominis

Trichomonas tenax

Vorticella - all species in genus