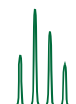


# **AnagnosTec SARAMIS™ ReferenceSpectra**

## **AnagnosTec**

Am Muehlenberg 11  
14476 Potsdam/Golm  
Germany  
[www.anagnostec.eu](http://www.anagnostec.eu)  
[anagnostec@anagnostec.eu](mailto:anagnostec@anagnostec.eu)

October 2009



This list contains all species of bacteria, fungi and yeasts for which ReferenceSpectra are available in the SARAMIS™ database. ReferenceSpectra are used for the semi-automated second-line identification of microbial samples.

For orientation, the genus name of the first species or particular genera is printed in green.

## Bacteria

**Abiotrophia** defectiva

**Acetobacter** aceti

**Achromobacter** denitrificans

Achromobacter insolitus

Achromobacter marplatensis

Achromobacter piechaudii

Achromobacter ruhlandii

Achromobacter sp.

Achromobacter spanius

Achromobacter xylooxidans

Achromobacter xylooxidans subsp. denitrificans

Achromobacter xylooxidans subsp. xylooxidans

**Acidovorax** sp.

**Acinetobacter** baumannii

Acinetobacter baumannii DNA group 02

Acinetobacter calcoaceticus

Acinetobacter haemolyticus DNA group 04

Acinetobacter johnsonii

Acinetobacter johnsonii DNA group 07

Acinetobacter junii DNA group 05

Acinetobacter lwoffii

Acinetobacter lwoffii DNA group 08

Acinetobacter radioresistens DNA group 12

Acinetobacter schindleri

Acinetobacter septicus

Acinetobacter sp.

Acinetobacter sp. DNA group 10

Acinetobacter sp. DNA group 11

Acinetobacter sp. DNA group 13

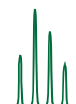
Acinetobacter sp. DNA group 14

Acinetobacter sp. DNA group 15

Acinetobacter sp. DNA group 3

Acinetobacter sp. DNA group 6

Acinetobacter ursingii



**Actinobacillus** arthritidis

Actinobacillus equuli subsp. haemolyticus

Actinobacillus indolicus

Actinobacillus lignieresii

Actinobacillus minor

Actinobacillus pleuropneumoniae

Actinobacillus rossii

Actinobacillus seminis

Actinobacillus suis

**Actinobaculum** schaalii

Actinobaculum suis

**Actinomadura** sp.

**Actinomyces** denticolens

Actinomyces europaeus

Actinomyces gaevenitzii

Actinomyces georgiae

Actinomyces israeli

Actinomyces meyeri

Actinomyces naeslundii

Actinomyces neuii

Actinomyces neuii subsp. anitratus

Actinomyces odontolyticus

Actinomyces sp.

Actinomyces turicensis

Actinomyces viscosus

**Actinoplanes** deccanensis

Actinoplanes globisporus

Actinoplanes lobatus

Actinoplanes sp.

**Advenella** incenata

**Aerococcus** sp.

Aerococcus urinae

Aerococcus viridans

**Aeromonas** allosacchrophila

Aeromonas aquariorum

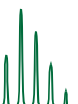
Aeromonas bestiarum

Aeromonas bivalvium

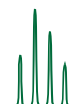
Aeromonas encheleia

Aeromonas eucrenophila

Aeromonas hydrophila



Aeromonas hydrophila subsp. dhakensis  
Aeromonas hydrophila subsp. hydrophila  
Aeromonas hydrophila subsp. ranae  
Aeromonas hydrophila/caviae  
Aeromonas media  
Aeromonas molluscorum  
Aeromonas popoffi  
Aeromonas punctata subsp. caviae  
Aeromonas punctata subsp. punctata  
Aeromonas salmonicida  
Aeromonas salmonicida subsp. achromogenes  
Aeromonas salmonicida subsp. mosoucida  
Aeromonas salmonicida subsp. pectinolytica  
Aeromonas salmonicida subsp. salmonicida  
Aeromonas salmonicida subsp. smithia  
Aeromonas schubertii  
Aeromonas sharmana  
Aeromonas simiae  
Aeromonas sobria  
Aeromonas sobria/caviae  
Aeromonas sp.  
Aeromonas tecta  
Aeromonas trota  
Aeromonas veronii biovar sobria  
Aeromonas veronii biovar veronii  
**Aggregatibacter** actinomycetemcomitans  
Aggregatibacter aphrophilus  
Aggregatibacter sp.  
**Agrobacterium** sp.  
Agrobacterium tumefaciens  
**Agrococcus** jenensis  
**Agromyces** mediolanus  
**Alcaligenes** faecalis  
Alcaligenes faecalis subsp. faecalis  
Alcaligenes sp.  
**Algoriphagus** winogradskyi  
**Alloiococcus** otitis  
**Alteromonas** macleodii  
Alteromonas sp.  
**Aminobacter** sp.



**Amycolatopsis** alba

Amycolatopsis azurea

Amycolatopsis balhimycina

Amycolatopsis coloradensis

Amycolatopsis decaplanina

Amycolatopsis eurytherma

Amycolatopsis fastidiosa

Amycolatopsis japonica

Amycolatopsis kentuckyensis

Amycolatopsis keratiniphila

Amycolatopsis lexingtonensis

Amycolatopsis lurida

Amycolatopsis mediterranei

Amycolatopsis minnesotensis

Amycolatopsis orientalis

Amycolatopsis pretoriensis

Amycolatopsis sacchari

Amycolatopsis sulphurea

Amycolatopsis tolypomycina

Amycolatopsis vancoresmycina

**Anaerococcus** hydrogenalis

Anaerococcus lactolyticus

Anaerococcus lactolyticus/murdochii

Anaerococcus murdochii

Anaerococcus prevotii

Anaerococcus sp.

Anaerococcus tetradius

Anaerococcus vaginalis

**Angiococcus** disciformis

**Antarctobacter** heliothermus

**Aquaspirillum** dispar

**Arcanobacterium** bernardiae

Arcanobacterium bialowiezense

Arcanobacterium bonasi

Arcanobacterium haemolyticum

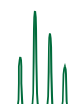
Arcanobacterium hippocoleae

Arcanobacterium pyogenes

Arcanobacterium sp.

**Archangium** sp.

**Arcobacter** butzleri



**Arthrobacter** agilis

Arthrobacter albus

Arthrobacter ardleyensis

Arthrobacter arilaitensis

Arthrobacter atrocyaneus

Arthrobacter aurescens

Arthrobacter bergerei

Arthrobacter castelli

Arthrobacter chlorophenolicus

Arthrobacter citreus

Arthrobacter creatinolyticus

Arthrobacter crystallopoietes

Arthrobacter cumminsii

Arthrobacter flavus

Arthrobacter gandavensis

Arthrobacter gangotriensis

Arthrobacter globiformis

Arthrobacter histidinovorans

Arthrobacter ilicis

Arthrobacter kerguelensis

Arthrobacter koreensis

Arthrobacter luteolus

Arthrobacter methylotrophus

Arthrobacter monumenti

Arthrobacter mysorens

Arthrobacter nasiphocae

Arthrobacter nicotianae

Arthrobacter nicotinovorans

Arthrobacter nitroguajacolicus

Arthrobacter oxydans

Arthrobacter parietis

Arthrobacter pascens

Arthrobacter pigmenti

Arthrobacter polychromogenes

Arthrobacter protophormiae

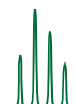
Arthrobacter psychrolactophilus

Arthrobacter psychrophenolicus

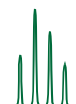
Arthrobacter ramosus

Arthrobacter rhombi

Arthrobacter roseus



Arthrobacter ruscicus  
Arthrobacter scleromae  
Arthrobacter sp.  
Arthrobacter stackebrandtii  
Arthrobacter sulfonivorans  
Arthrobacter sulfureus  
Arthrobacter tecti  
Arthrobacter tumbae  
Arthrobacter uratoxydans  
Arthrobacter ureafaciens  
Arthrobacter woluwensis  
**Atopobium** parvulum  
**Avibacterium** gallinarum  
**Bacillus** amyloliquefaciens  
Bacillus anthracis  
Bacillus atrophaeus  
Bacillus cereus  
Bacillus cereus group  
Bacillus circulans  
Bacillus clausii  
Bacillus coagulans  
Bacillus firmus  
Bacillus gibsonii  
Bacillus globigii  
Bacillus lentus  
Bacillus licheniformis  
Bacillus macroides  
Bacillus megaterium  
Bacillus muralis  
Bacillus mycoides  
Bacillus oleronius  
Bacillus pasteurii  
Bacillus pseudofirmus  
Bacillus pseudomycooides  
Bacillus psychrodurans  
Bacillus pumilus  
Bacillus silvestris  
Bacillus sp.  
Bacillus sphaericus  
Bacillus subtilis



Bacillus subtilis subsp. spizizenii

Bacillus subtilis subsp. subtilis

Bacillus subtilis var. niger

Bacillus thuringiensis

Bacillus toyoi

Bacillus weihenstephanensis

**Bacteroides** caccae

Bacteroides capillosus

Bacteroides dorei

Bacteroides fragilis

Bacteroides intermedius

Bacteroides ovatus

Bacteroides sp.

Bacteroides stercoris

Bacteroides thetaiotaomicron

Bacteroides uniformis

Bacteroides ureolyticus

Bacteroides vulgatus

**Bergeyella** zoohelcum

**Bifidobacterium** adolescentis

Bifidobacterium angulatum

Bifidobacterium animalis

Bifidobacterium animalis subsp. animalis

Bifidobacterium animalis subsp. lactis

Bifidobacterium asteroides

Bifidobacterium bifidum

Bifidobacterium boum

Bifidobacterium breve

Bifidobacterium catenulatum

Bifidobacterium choerinum

Bifidobacterium coryneforme

Bifidobacterium cuniculi

Bifidobacterium dentium

Bifidobacterium gallicum

Bifidobacterium gallinarum

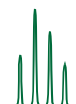
Bifidobacterium longum

Bifidobacterium magnum

Bifidobacterium merycicum

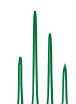
Bifidobacterium minimum

Bifidobacterium pseudocatenulatum

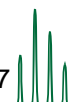




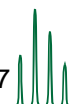
Bifidobacterium pseudolongum subsp. pseudolongum  
Bifidobacterium pseudolongum subsp.globosum  
Bifidobacterium pullorum  
Bifidobacterium ruminantium  
Bifidobacterium saeculare  
Bifidobacterium scardovii  
Bifidobacterium sp.  
Bifidobacterium thermacidophilum subsp. porcinum  
Bifidobacterium thermacidophilum subsp. thermacidophilum  
Bifidobacterium thermophilum  
**Biophilia** wadsworthia  
**Bordetella** avium  
Bordetella bronchiseptica  
Bordetella hinzii  
Bordetella holmesii  
Bordetella parapertussis  
Bordetella pertussis  
Bordetella petrii  
Bordetella sp.  
Bordetella trematum  
**Bosea** thiooxidans  
**Brachyspira** aalborgi  
Brachyspira hyodysenteriae  
Brachyspira innocens  
Brachyspira intermedia  
Brachyspira murdochii  
Brachyspira pilosicoli  
**Brevibacillus** brevis  
Brevibacillus parabrevis  
**Brevibacterium** casei  
Brevibacterium linens  
Brevibacterium liquefaciens  
Brevibacterium luteolum  
Brevibacterium sp.  
**Brevundimonas** bullata  
Brevundimonas diminuta  
Brevundimonas sp.  
Brevundimonas vesicularis  
**Brucella** abortus  
Brucella canis



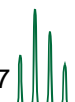
Brucella marine  
Brucella maris  
Brucella melitensis  
Brucella neotomae  
Brucella ovis  
Brucella suis  
**Burkholderia** ambifaria Genomovar VII  
Burkholderia anthina Genomovar VIII  
Burkholderia arboris  
Burkholderia cenocepacia Genomovar III  
Burkholderia cepacia Genomovar I  
Burkholderia cepacia-Komplex  
Burkholderia diffusa  
Burkholderia dolosa Genomovar VI  
Burkholderia fungorum  
Burkholderia gladioli  
Burkholderia latens  
Burkholderia metallica  
Burkholderia multivorans Genomovar II  
Burkholderia pseudomallei  
Burkholderia pyrrocinia Genomovar IX  
Burkholderia seminalis  
Burkholderia sp.  
Burkholderia stabilis Genomovar IV  
Burkholderia thailandensis  
Burkholderia ubonensis  
Burkholderia vietnamiensis Genomovar V  
**Buttiauxella** agrestis  
**Campylobacter** coli  
Campylobacter fetus subsp. fetus  
Campylobacter jejuni  
Campylobacter lari  
Campylobacter sp.  
**Capnocytophaga** canimorsus  
Capnocytophaga infantium  
Capnocytophaga sp.  
Capnocytophaga sputigena  
**Cardiobacterium** hominis  
**Caulobacter** leidyi  
**Cedecea** neteri



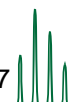
**Cellulomonas** uda  
**Cellulophaga** fucicola  
Cellulophaga sp.  
**Chlorobium** clathratiforme  
Chlorobium phaeobacteroides  
**Chromobacterium** violaceum  
**Chryseobacterium** daecheongense  
Chryseobacterium defluvii  
Chryseobacterium gleum  
Chryseobacterium indologenes  
Chryseobacterium meningosepticum  
Chryseobacterium sp.  
**Chryseomonas** luteola  
**Citrobacter** amalonaticus  
Citrobacter braakii  
Citrobacter diversus  
Citrobacter farmeri  
Citrobacter freundii  
Citrobacter koseri  
Citrobacter rodentium  
Citrobacter sp.  
Citrobacter werkmanii  
Citrobacter youngae  
**Clostridium** baratii  
Clostridium beijerinckii  
Clostridium bifermentans  
Clostridium botulinum  
Clostridium butyricum  
Clostridium cadaveris  
Clostridium chauvoei  
Clostridium difficile  
Clostridium fallax  
Clostridium glycolicum  
Clostridium histolyticum  
Clostridium limosum  
Clostridium paraperfringens  
Clostridium paraputrificum  
Clostridium perfringens  
Clostridium ramosum  
Clostridium scatologenes



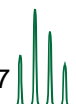
Clostridium septicum  
Clostridium sordellii  
Clostridium sp.  
Clostridium spiroforme  
Clostridium sporogenes  
Clostridium tertium  
Clostridium tetanomorphum  
**Coenonia** anatina  
**Comamonas** aquatica  
Comamonas testosteroni  
**Corallococcus** coralloides  
Corallococcus exiguus  
Corallococcus macrosporus  
**Corynebacterium** accolens  
Corynebacterium afermentans  
Corynebacterium afermentans/coyleae  
Corynebacterium amycolatum  
Corynebacterium amycolatum/minutissimum  
Corynebacterium auris  
Corynebacterium diphtheriae  
Corynebacterium durum  
Corynebacterium freynei  
Corynebacterium glucuronolyticum  
Corynebacterium jeikeium  
Corynebacterium kutscheri  
Corynebacterium macginleyi  
Corynebacterium matruchotii  
Corynebacterium minutissimum  
Corynebacterium mucifaciens  
Corynebacterium pilosum  
Corynebacterium propinquum  
Corynebacterium pseudodiphtheriticum  
Corynebacterium renale  
Corynebacterium riegelii  
Corynebacterium sp.  
Corynebacterium striatum  
Corynebacterium tuberculostearicum  
Corynebacterium ulcerans  
Corynebacterium xerosis  
**Coxiella** burnetii



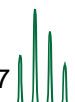
**Cronobacter** sakazakii  
**Cryobacterium** psychrophilum  
**Cupriavidus** pauculus  
Cupriavidus respiraculi  
**Cyclobacterium** sp.  
**Cystobacter** fuscus  
**Cytophaga** sp.  
**Cytophagales** sp.  
**Deinococcus** sp.  
**Delftia** acidovorans  
Delftia sp.  
**Dermabacter** hominis  
**Dermacoccus** nishinomiyaensis  
**Desulfocapsa** sp.  
**Dichelobacter** nodosus  
**Dietzia** psychralcaliphilia  
**Dysgonomonas** gadei  
**Eggerthella** lenta  
**Eikenella** corrodens  
Eikenella sp.  
**Elizabethkingia** meningoseptica  
Elizabethkingia miricola  
**Empedobacter** brevis  
**Enhydrobacter** aerosaccus  
**Ensifer** adhaerens  
**Enterobacter** aerogenes  
Enterobacter amnigenus  
Enterobacter asburiae  
Enterobacter cancerogenus  
Enterobacter cloacae  
Enterobacter cloacae subsp. dissolvens  
Enterobacter cowanii  
Enterobacter gergoviae  
Enterobacter hormaechei/cloacae  
Enterobacter sp.  
**Enterococcus** avium  
Enterococcus casseliflavus  
Enterococcus cecorum  
Enterococcus durans  
Enterococcus faecalis



Enterococcus faecium  
Enterococcus gallinarum  
Enterococcus hirae  
Enterococcus saccharolyticus  
Enterococcus sp.  
**Erysipelothrix** rhusiopathiae  
**Erythrobacter** longus  
Erythrobacter sp.  
**Escherichia** albertii  
Escherichia blattae  
Escherichia coli  
Escherichia coli var. haemolytica  
Escherichia fergusonii  
Escherichia hermannii  
Escherichia sp.  
Escherichia vulneris  
**Ewingella** americana  
**Exiguobacterium** acetylicum  
Exiguobacterium aestuarii  
Exiguobacterium sp.  
**Finegoldia** magna  
**Flavobacterium** mizutaii  
Flavobacterium odoratum  
Flavobacterium sp.  
**Flectobacillus** sp.  
**Flexibacter** sp.  
**Francisella** philomiragia  
Francisella philomiragia subsp. philomiragia  
Francisella sp.  
Francisella tularensis  
Francisella tularensis subsp. holarctica  
Francisella tularensis subsp. mediasiatrica  
Francisella tularensis subsp. novicida  
Francisella tularensis subsp. tularensis  
**Frigoribacterium** sp.  
**Fulvimarina** litoralis  
**Fusobacterium** necrophorum  
Fusobacterium nucleatum  
Fusobacterium nucleatum subsp. nucleatum  
Fusobacterium sp.



Fusobacterium varium  
**Gallibacterium** anatis  
**Gardnerella** vaginalis  
**Gelidibacter** sp.  
**Gemella** morbillorum  
Gemella sp.  
**Geobacillus** subterraneus  
Geobacillus uzenensis  
**Glaciecocola** mesophila  
Glaciecocola sp.  
**Globicatella** sanguinis  
**Gordonia** sputi  
**Granulicatella** adiacens  
**Grimontia** hollisae  
**Haemophilus** ducreyi  
Haemophilus influenzae  
Haemophilus parahaemolyticus  
Haemophilus parainfluenzae  
Haemophilus parasuis  
Haemophilus segnis  
Haemophilus sp.  
Haemophilus  
**Hafnia** alvei  
**Halomonas** sp.  
Halomonas variabilis  
Halomonas venusta  
**Helicobacter** pylori  
**Herbaspirillum** huttiense  
**Histophilus** somni  
**Hydrogenophaga** palleronii  
Hydrogenophaga sp.  
**Hyphomonas** sp.  
**Ideonella** sp.  
**Inquilinus** limosus  
Inquilinus sp.  
**Janthinobacterium** agaricidamnosum  
Janthinobacterium lividum  
**Kineosporia** aurantiaca  
**Kingella** denitrificans  
Kingella kingae



**Klebsiella** oxytoca

Klebsiella pneumoniae

Klebsiella pneumoniae subsp. ozaenae

Klebsiella pneumoniae subsp. pneumoniae

Klebsiella sp.

**Kluyvera** ascorbata

Kluyvera cryocrescens

Kluyvera intermedia

Kluyvera sp.

**Kocuria** kristinae

Kocuria rhizophila

Kocuria sp.

**Kutzneria** sp.

**Kytococcus** sedentarius

**Lactobacillus** acidophilus

Lactobacillus alimentarius

Lactobacillus animalis

Lactobacillus brevis

Lactobacillus casei

Lactobacillus crispatus

Lactobacillus delbrueckii subsp. delbrueckii

Lactobacillus delbrueckii subsp. lactis

Lactobacillus fermentum

Lactobacillus gasseri

Lactobacillus iners

Lactobacillus ingluviei

Lactobacillus intestinalis

Lactobacillus jensenii

Lactobacillus johnsonii

Lactobacillus lindneri

Lactobacillus paracasei

Lactobacillus paracasei subsp. paracasei

Lactobacillus plantarum

Lactobacillus plantarum subsp. plantarum

Lactobacillus reuteri

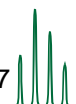
Lactobacillus rhamnosus

Lactobacillus salivarius

Lactobacillus sp.

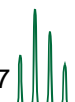
Lactobacillus vaginalis

**Lactococcus** garvieae

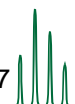




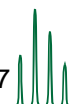
Lactococcus lactis  
Lactococcus lactis subsp. cremoris  
Lactococcus lactis subsp. lactis  
Lactococcus planatarum  
**Lamprocystis** purpurea  
Lamprocystis sp.  
**Leclercia** adecarboxylata  
Leclercia sp.  
**Leeuwenhoekiella** aequorea  
**Legionella** anisa  
Legionella birminghamensis  
Legionella bozemanæ  
Legionella cherrii  
Legionella cincinnatiensis  
Legionella dumoffii  
Legionella erythra  
Legionella feeleii  
Legionella gormanii  
Legionella hackeliae  
Legionella israelensis  
Legionella jamestowniensis  
Legionella jordanis  
Legionella lansingensis  
Legionella longbeachae  
Legionella maceachernii  
Legionella micdadei  
Legionella oakridgensis  
Legionella parisiensis  
Legionella pneumophila  
Legionella pneumophila subsp. fraseri  
Legionella pneumophila subsp. pascullei  
Legionella pneumophila subsp. pneumophila  
Legionella rubrilucens  
Legionella sainthelensi  
Legionella sp.  
Legionella steigerwaltii  
Legionella taurinensis  
Legionella wadsworthii  
**Leifsonia** aquatica  
Leifsonia xyli



**Leptospira** sp.  
**Leptothrix** ginsengisoli  
Leptothrix mobilis  
**Leptotrichia** buccalis  
**Leuconostoc** citreum  
Leuconostoc mesenteroides  
Leuconostoc mesenteroides subsp. mesenteroides  
Leuconostoc pseudomesenteroides  
Leuconostoc sp.  
**Listeria** grayi  
Listeria innocua  
Listeria ivanovii  
Listeria ivanovii subsp. ivanovii  
Listeria ivanovii subsp. londoniensis  
Listeria monocytogenes  
Listeria seeligeri  
Listeria welshimeri  
**Loktanella** salsilacus  
Loktanella sp.  
**Lysobacter** sp.  
**Mannheimia** granulomatis  
Mannheimia haemolytica  
Mannheimia varigena  
**Maribacter** aquivivus  
Maribacter ulvicola  
**Marinobacter** hydrocarbonoclastica  
Marinobacter sp.  
**Marinococcus** halophilus  
**Mesorhizobium** sp.  
**Methylarcula** sp.  
**Methylobacterium** chloromethanicum  
Methylobacterium extorquens  
Methylobacterium fujisawaense  
Methylobacterium mesophilicum  
Methylobacterium radiotolerans  
Methylobacterium sp.  
**Microbacterium** aerolatum  
Microbacterium arborescens  
Microbacterium aurum  
Microbacterium dextranolyticum



Microbacterium flavescens  
Microbacterium foliorum  
Microbacterium halotolerans  
Microbacterium hydrocarbonoxydans  
Microbacterium keratanolyticum  
Microbacterium ketosireducens  
Microbacterium koreense  
Microbacterium lacticum  
Microbacterium laevaniformans  
Microbacterium luteolum  
Microbacterium natoriense  
Microbacterium oleivorans  
Microbacterium oxydans  
Microbacterium phyllosphaerae  
Microbacterium resistens  
Microbacterium schleiferi  
Microbacterium sp.  
Microbacterium terrae  
Microbacterium terregens  
Microbacterium testaceum  
Microbacterium thalassium  
**Micrococcus** luteus  
Micrococcus sp.  
**Micromonospora** aurantiaca  
Micromonospora brunnea  
Micromonospora carbonacea  
Micromonospora chalcea  
Micromonospora chersina  
Micromonospora citrea  
Micromonospora coerulea  
Micromonospora echinoaurantiaca  
Micromonospora echinobrunnea  
Micromonospora echinospora  
Micromonospora fulovoviridis  
Micromonospora inyoensis  
Micromonospora peucetica  
Micromonospora rosaria  
Micromonospora sagamiensis  
Micromonospora sp.  
Micromonospora viridifaciens



**Mitsuaria** chitosanitabida

**Mobiluncus** curtisii

Mobiluncus sp.

**Moellerella** wisconsensis

**Moraxella** atlantae

Moraxella bovis

Moraxella catarrhalis

Moraxella caviae

Moraxella osloensis

Moraxella sp.

**Morganella** morganii

Morganella morganii subsp. sibonii

Morganella sp.

**Mycobacterium** abscessus

Mycobacterium avium

Mycobacterium avium subsp. avium

Mycobacterium avium subsp. hominissuis

Mycobacterium avium subsp. paratuberculosis

Mycobacterium bohemicum

Mycobacterium bovis

Mycobacterium branderi

Mycobacterium brumae

Mycobacterium chelonae

Mycobacterium chimaera

Mycobacterium chitae

Mycobacterium chubuense

Mycobacterium confluentis

Mycobacterium cosmeticum

Mycobacterium elephantis

Mycobacterium farcinogenes

Mycobacterium fortuitum

Mycobacterium fortuitum subsp. fortuitum

Mycobacterium gastri

Mycobacterium gordonae

Mycobacterium haemophilum

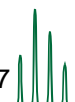
Mycobacterium intermedium

Mycobacterium intracellulare

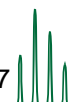
Mycobacterium kansasii

Mycobacterium malmoense

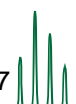
Mycobacterium marinum



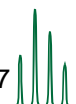
Mycobacterium moriokaense  
Mycobacterium nonchromogenes  
Mycobacterium peregrinum  
Mycobacterium phlei  
Mycobacterium scrofulaceum  
Mycobacterium septicum/peregrinum  
Mycobacterium silvaticum  
Mycobacterium simiae  
Mycobacterium smegmatis  
Mycobacterium sp.  
Mycobacterium szulgai  
Mycobacterium terrae  
Mycobacterium tuberculosis  
Mycobacterium vaccae  
Mycobacterium xenopi  
**Mycoplasma** bovis  
Mycoplasma hominis  
Mycoplasma sp.  
**Myroides** odoratimimus  
**Myxococcus** sp.  
Myxococcus xanthus  
**Neisseria** cinerea  
Neisseria elongata  
Neisseria gonorrhoeae  
Neisseria lactamica  
Neisseria meningitidis  
Neisseria sp.  
Neisseria subflava  
**Nocardia** abscessus  
Nocardia asiatica  
Nocardia asteroides  
Nocardia brasiliensis  
Nocardia brevicatena  
Nocardia cyriacigeorgica  
Nocardia farcinica  
Nocardia ignorata  
Nocardia nova  
Nocardia otitidiscaviarum  
Nocardia paucivorans  
Nocardia pneumoniae



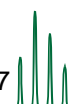
Nocardia pseudobrasiliensis  
Nocardia sp.  
Nocardia transvalensis  
Nocardia veterana  
**Nocardioides** sp.  
**Nocardiopsis** composta  
Nocardiopsis halophila  
Nocardiopsis sp.  
**Novosphingobium** subarctica  
**Oceanospirillum** sp.  
**Ochrobactrum** anthropi  
Ochrobactrum anthropi/tritici  
Ochrobactrum sp.  
**Oerskovia** turbata  
**Oligella** urethralis  
**Ornithobacterium** rhinotracheale  
**Oxalobacter** sp.  
**Paenibacillus** larvae  
Paenibacillus macerans  
Paenibacillus polymyxa  
Paenibacillus sp.  
Paenibacillus turicensis  
**Pandoraea** apista  
Pandoraea pnomenusa  
Pandoraea pulmonicola  
Pandoraea sputorum  
**Pantoea** agglomerans  
Pantoea sp.  
**Parabacteroides** distasonis  
Parabacteroides merdae  
**Paracoccus** yeerii  
Paracoccus zeaxanthinifaciens  
**Parvimonas** micra  
**Pasteurella** caballi  
Pasteurella canis  
Pasteurella dagmatis  
Pasteurella magnus  
Pasteurella mairii  
Pasteurella multocida  
Pasteurella multocida subsp. multocida



Pasteurella pneumotropica  
Pasteurella sp.  
Pasteurella testudinis  
Pasteurella trehalosi  
**Pectobacterium** carotovorum subsp. carotovorum  
**Pediococcus** pentosaceus  
**Pedobacter** sp.  
**Pedomicrobium** australicum  
**Pelistega** europaea  
**Peptococcus** niger  
**Peptoniphilus** asaccharolyticus  
Peptoniphilus gorbachii  
Peptoniphilus harei  
Peptoniphilus indolicus  
Peptoniphilus ivorii  
Peptoniphilus lacrimalis  
Peptoniphilus olsenii  
Peptoniphilus sp.  
**Peptostreptococcus** anaerobius  
Peptostreptococcus octavius  
Peptostreptococcus sp.  
**Phenylobacterium** sp  
**Photorhabdus** luminescens subsp. akhurstii  
Photorhabdus luminescens subsp. kayaii  
**Planococcus** southpolaris  
**Plesiomonas** shigelloides  
**Polaribacter** irgensii  
**Porphyromonas** asaccharolytica  
Porphyromonas endodontalis  
Porphyromonas gingivalis  
Porphyromonas propionicum  
**Pragia** fontium  
**Prevotella** bivia  
Prevotella buccae  
Prevotella denticola  
Prevotella disiens  
Prevotella intermedia  
Prevotella loescheii  
Prevotella melaninogenica  
Prevotella oralis



Prevotella sp.  
Prevotella zoogloformans  
**Propionibacterium** acnes  
Propionibacterium granulosum  
Propionibacterium propionicum  
Propionibacterium sp.  
**Proteus** mirabilis  
Proteus penneri  
Proteus sp.  
Proteus vulgaris  
**Providencia** alcalifaciens  
Providencia rettgeri  
Providencia sp.  
Providencia stuartii  
**Pseudoalteromonas** antarctica  
Pseudoalteromonas carrageenovora  
Pseudoalteromonas citrea  
Pseudoalteromonas elyakovii  
Pseudoalteromonas haloplanktis  
Pseudoalteromonas sp.  
**Pseudomonas** aeruginosa  
Pseudomonas alcaligenes  
Pseudomonas chloritidismutans  
Pseudomonas chlororaphis  
Pseudomonas fluorescens  
Pseudomonas grimontii  
Pseudomonas lini  
Pseudomonas luteola  
Pseudomonas mendocina  
Pseudomonas migulae  
Pseudomonas oryzihabitans  
Pseudomonas pictorum  
Pseudomonas pseudoalcaligenes  
Pseudomonas putida  
Pseudomonas sp.  
Pseudomonas stutzeri  
Pseudomonas teessidea  
Pseudomonas tolaasii  
Pseudomonas veronii  
Pseudomonas viridiflava





**Pseudoxanthomonas** broegbernensis

Pseudoxanthomonas daejeonensis

Pseudoxanthomonas japonensis

Pseudoxanthomonas kalamensis

Pseudoxanthomonas kaohsiungensis

Pseudoxanthomonas koreensis

Pseudoxanthomonas mexicana

Pseudoxanthomonas spadix

Pseudoxanthomonas taiwanensis

**Psychrobacter** frigidicola

Psychrobacter glacincola

Psychrobacter phenylpyruvicus

Psychrobacter sp.

**Psychroserpens** sp.

**Rahnella** aquatilis

**Ralstonia** gilardii

Ralstonia insidiosa

Ralstonia mannitolilytica

Ralstonia panila

Ralstonia pickettii

Ralstonia sp.

**Raoultella** ornithinolytica

Raoultella planticola

Raoultella terrigena

**Rheinheimera** baltica

Rheinheimera chironomi

Rheinheimera texasensis

**Rhizobium** radiobacter

**Rhodobacter** massiliensis

Rhodobacter sp.

**Rhodococcus** equi

Rhodococcus erythropolis

Rhodococcus sp.

**Riemerella** anatipestifer

Riemerella columbina

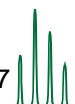
Riemerella sp.

**Roseobacter** sp.

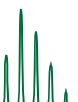
**Roseovarius** sp.

**Rothia** dentocariosa

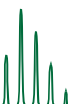
Rothia mucilaginoso



Rothia/**Kokuria** sp.  
**Ruegeria** atlantica  
**Ruminococcus** gnavus  
**Salinibacterium** amurskyense  
**Salmonella** bongori  
Salmonella enterica subsp. arizonae  
Salmonella enterica subsp. bongori  
Salmonella enterica subsp. diarizonae  
Salmonella enterica subsp. enterica  
Salmonella enterica subsp. houtenae  
Salmonella enterica subsp. indica  
Salmonella enterica subsp. salamae  
Salmonella sp.  
**Serratia** ficaria  
Serratia grimesii  
Serratia liquefaciens  
Serratia marcescens  
Serratia odorifera  
Serratia plymuthica  
Serratia rubidaea  
Serratia sp.  
**Shewanella** putrefaciens  
**Shigella** boydii  
Shigella dysenteriae  
Shigella flexneri  
Shigella sonnei  
Shigella sp.  
**Skermanella** sp.  
**Sphaerotilus** sp.  
**Sphingobacterium** multivorum  
Sphingobacterium sp.  
Sphingobacterium spiritivorum  
**Sphingobium** yanoikuyae  
**Sphingomonas** adhaesiva  
Sphingomonas koreensis  
Sphingomonas parapaucimobilis  
Sphingomonas paucimobilis  
Sphingomonas sp.  
**Sphingopyxis** flavimaris  
**Sporosarcina** macmurdoensis



**Staleyia** guttiformis  
**Staphylococcus** arlettae  
Staphylococcus aureus  
Staphylococcus aureus  
Staphylococcus aureus subsp. aureus  
Staphylococcus auricularis  
Staphylococcus capitis  
Staphylococcus capitis subsp. capitis  
Staphylococcus capitis subsp. ureolyticus  
Staphylococcus caprae  
Staphylococcus carnosus subsp. carnosus  
Staphylococcus carnosus subsp. utilis  
Staphylococcus chromogenes  
Staphylococcus cohnii  
Staphylococcus cohnii subsp. cohnii  
Staphylococcus cohnii subsp. urealyticus  
Staphylococcus croceolyticus  
Staphylococcus delphini  
Staphylococcus epidermidis  
Staphylococcus equorum  
Staphylococcus equorum subsp. equorum  
Staphylococcus equorum subsp. linens  
Staphylococcus felis  
Staphylococcus gallinarum  
Staphylococcus haemolyticus  
Staphylococcus hominis  
Staphylococcus hyicus  
Staphylococcus intermedius  
Staphylococcus kloosii  
Staphylococcus lentus  
Staphylococcus lugdunensis  
Staphylococcus lutrae  
Staphylococcus pasteurii  
Staphylococcus pettenkoferi  
Staphylococcus saprophyticus  
Staphylococcus saprophyticus subsp. saprophyticus  
Staphylococcus schleiferi  
Staphylococcus schleiferi subsp. coagulans  
Staphylococcus schleiferi subsp. schleiferi  
Staphylococcus sciuri



*Staphylococcus sciuri* subsp. *carhaticus*

*Staphylococcus sciuri* subsp. *rodentium*

*Staphylococcus sciuri* subsp. *sciuri*

*Staphylococcus simulans*

*Staphylococcus* sp.

*Staphylococcus vitulinus*

*Staphylococcus warneri*

*Staphylococcus xylosus*

**Stenotrophomonas** *acidaminophilia*

*Stenotrophomonas africana*

*Stenotrophomonas chelatiphaga*

*Stenotrophomonas dokdonensis*

*Stenotrophomonas humi*

*Stenotrophomonas koreensis*

*Stenotrophomonas maltophilia*

*Stenotrophomonas nitritireducense*

*Stenotrophomonas rhizophila*

*Stenotrophomonas* sp.

*Stenotrophomonas terrae*

**Streptococcus** *acidominimus*

*Streptococcus agalactiae*

*Streptococcus alactolyticus*

*Streptococcus anginosus*

*Streptococcus anginosus\_milleri\_group*

*Streptococcus australis*

*Streptococcus bovis*

*Streptococcus bovis/gallolyticus*

*Streptococcus canis*

*Streptococcus constellatus*

*Streptococcus constellatus* subsp. *constellatus*

*Streptococcus constellatus* subsp. *pharyngis*

*Streptococcus cristatus*

*Streptococcus didelphis*

*Streptococcus downei*

*Streptococcus dysgalactiae*

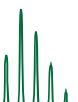
*Streptococcus dysgalactiae* subsp. *dysgalactiae*

*Streptococcus dysgalactiae* subsp. *equisimilis*

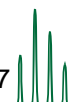
*Streptococcus entericus*

*Streptococcus equi* subsp. *equi*

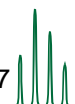
*Streptococcus equi* subsp. *ruminatorum*



Streptococcus equi subsp. zooepidemicus  
Streptococcus gallinaceus  
Streptococcus gallolyticus  
Streptococcus gallolyticus subsp. gallolyticus  
Streptococcus gordonii  
Streptococcus hyointestinalis  
Streptococcus hyovaginalis  
Streptococcus infantis  
Streptococcus intermedius  
Streptococcus lutetiensis  
Streptococcus marimammalium  
Streptococcus massiliensis  
Streptococcus mitis  
Streptococcus mutans  
Streptococcus oligofermentans  
Streptococcus oralis  
Streptococcus orisratti  
Streptococcus parasanguinis  
Streptococcus parauberis  
Streptococcus pasteurianus  
Streptococcus peroris  
Streptococcus phocae  
Streptococcus pluranimalium  
Streptococcus pneumoniae  
Streptococcus porcinus  
Streptococcus pseudopneumoniae  
Streptococcus pyogenes  
Streptococcus salivarius  
Streptococcus sanguinis  
Streptococcus sinensis  
Streptococcus sp.  
Streptococcus sp. viridans group  
Streptococcus suis  
Streptococcus thermophilus  
Streptococcus thoraltensis  
Streptococcus uberis  
Streptococcus vestibularis  
**Streptomyces** bobili  
Streptomyces coelicolor  
Streptomyces galbus



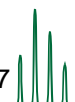
Streptomyces griseus subsp. griseus  
Streptomyces sp.  
Streptomyces tanashinensis  
Streptomyces viridochromogenes  
**Streptosporangium** amethystogenes  
Streptosporangium fragile  
Streptosporangium roseum  
Streptosporangium vulgare  
**Sulfitobacter** sp.  
**Tanella** salinilacus  
**Taylorella** equigenitalis  
**Terrabacter** sp.  
**Thiocystis** sp.  
**Tsukamurella** paurometabola  
Tsukamurella sp.  
Tsukamurella tyrosinosolvens  
**Turicella** otitidis  
**Vagococcus** fluvialis  
**Variovorax** paradoxus  
**Veillonella** atypica  
Veillonella sp.  
**Vibrio** alginolyticus  
Vibrio anguillarum  
Vibrio avarrensis  
Vibrio campbellii  
Vibrio carchariae  
Vibrio cholerae  
Vibrio cincinatiensis  
Vibrio damsela  
Vibrio fluvialis  
Vibrio furnissii  
Vibrio logei  
Vibrio metschnikovii  
Vibrio mimicus  
Vibrio natriegens  
Vibrio navarrensis  
Vibrio parahaemolyticus  
Vibrio proteolyticus  
Vibrio sp.  
Vibrio splendidus



Vibrio vulnificus  
**Wautersiella** falsenii  
**Weeksella** virosa  
**Weissella** viridescens  
**Xanthomonas** sp.  
**Xenorhabdus** beddingii  
Xenorhabdus bovienii  
Xenorhabdus budapestensis  
Xenorhabdus ehlersii  
Xenorhabdus innexi  
Xenorhabdus japonica  
Xenorhabdus nematophila  
Xenorhabdus poinarii  
Xenorhabdus sp.  
Xenorhabdus szentirmaii  
**Yersinia** aldovae  
Yersinia enterocolitica  
Yersinia frederiksenii  
Yersinia intermedia  
Yersinia kristensenii  
Yersinia mollaretii  
Yersinia pestis  
Yersinia pseudotuberculosis  
Yersinia ruckeri  
Yersinia sp.  
**Zobellia** amurskyensis  
Zobellia russellii

## Mycota and Yeasts

**Absidia** corymbifera  
**Acremonium** curvulum  
Acremonium murorum  
Acremonium recifei  
Acremonium sp.  
Acremonium strictum  
**Alternaria** alternata  
Alternaria sp.  
**Amanita** phalloides  
**Antrodia** serialis



Antrodia sinuosa

Antrodia vaillantii

Antrodia xantha

**Arthroderma** benhamiae

Arthroderma fulvum

Arthroderma gypseum

Arthroderma incurvatum

Arthroderma persicolor

Arthroderma uncinatum

Arthroderma vanbreuseghemii

**Arthrographis** kalrae

**Aspergillus** aculeatus

Aspergillus brasiliensis

Aspergillus candidus

Aspergillus carbonarius

Aspergillus ellipticus

Aspergillus flavus

Aspergillus fumigatus

Aspergillus ibericus

Aspergillus japonicus

Aspergillus lacticoffeatus

Aspergillus niger

Aspergillus ochraceus

Aspergillus parasiticus

Aspergillus phoenicis

Aspergillus restrictus

Aspergillus sclerotioniger

Aspergillus sp.

Aspergillus sydowii

Aspergillus tamarii

Aspergillus terreus

Aspergillus thermomutatus

Aspergillus tubingensis

Aspergillus vadensis

Aspergillus versicolor

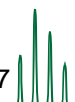
**Aureobasidium** pullulans

Aureobasidium pullulans var. pullulans

**Beauveria** sp.

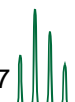
**Candida** aaseri

Candida africana

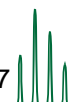




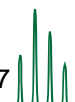
Candida albicans  
Candida boidinii  
Candida bombicala  
Candida bracarensis  
Candida cariosilignicola  
Candida catenulata  
Candida colliculosa  
Candida cylindracea  
Candida dubliniensis  
Candida famata  
Candida glabrata  
Candida haemulonii  
Candida inconspicua  
Candida intermedia  
Candida kefyr/sphaerica  
Candida lusitaniae  
Candida magnolia  
Candida maltosa  
Candida nivariensis  
Candida norvegica  
Candida parapsilosis  
Candida pararugosa  
Candida pelliculosa  
Candida pulcherrima  
Candida rugosa  
Candida sake  
Candida sp.  
Candida tropicalis  
Candida utilis  
**Chaetomium** globosum  
**Chrysosporium** keratinophilum  
**Cladosporium** cladosporioides  
Cladosporium sp.  
Cladosporium sphaerospermum  
**Colletotrichum** gloeosporioides  
**Coniophora** arida  
Coniophora marmorata  
Coniophora olivacea  
Coniophora puteana  
**Cryphonectria** parasitica



**Cryptococcus** laurentii  
Cryptococcus neoformans  
**Debaryomyces** hansenii  
Debaryomyces polymorphus  
Debaryomyces sp.  
**Diplomitoporus** lindbladii  
**Donkioporia** expansa  
**Drechslera** erythrospila  
**Emericella** nidulans  
**Emericellopsis** donezkii  
**Epicoccum** nigrum  
**Epidermophyton** floccosum  
**Exophiala** dermatitidis  
Exophiala jeanselmei  
Exophiala lecanii-corni  
Exophiala sp.  
**Fennellia** flavipes  
Fennellia nivea  
**Fusarium** dimerum  
Fusarium graminearum  
Fusarium nygamai  
Fusarium oxysporum  
Fusarium oxysporum subsp. aechmeae  
Fusarium oxysporum subsp. cyclaminis  
Fusarium proliferatum  
Fusarium proliferatum var. minus  
Fusarium scirpi  
Fusarium solani  
Fusarium sp.  
Fusarium verticillioides  
**Geotrichum** candidum  
Geotrichum capitatum  
**Gloeophyllum** abietinum  
Gloeophyllum sepiarium  
Gloeophyllum trabeum  
**Hypocrea** jecorina  
Hypocrea sp.  
**Issatchenkia** occidentalis  
Issatchenkia orientalis  
**Kabatiella** microsticta



**Kluyveromyces** marxianus  
Kluyveromyces marxianus var. marxianus  
**Leucogyrophana** mollusca  
Leucogyrophana pinastri  
**Lodderomyces** elongisporus  
**Malassezia** pachydermatis  
**Meruliporia** incrassata  
**Metschnikowia** pulcherrima  
**Microsporum** audouinii  
Microsporum canis  
Microsporum cookei  
Microsporum fulvum  
Microsporum gypseum  
Microsporum persicolor  
Microsporum praecox  
Microsporum racemosum  
Microsporum sp.  
Microsporum vanbreuseghemii  
**Monascus** pilosus/ruber  
Monascus purpureus  
**Monilia** brunnea  
Monilia sp.  
**Mucor** plumbeus  
Mucor sp.  
**Mycogone** rosea  
**Mycotypha** microspora  
**Myriodontium** keratinophilum  
**Neofabraea** perennans  
**Oligoporus** placenta  
**Paecilomyces** lilacinus  
Paecilomyces sp.  
Paecilomyces variotii  
**Penicillium** brevicompactum  
Penicillium chrysogenum  
Penicillium expansum  
Penicillium griseofulvum  
Penicillium italicum  
Penicillium purpurogenum  
Penicillium rugolusum  
Penicillium sp.



**Phoma** exigua var. exigua

Phoma glomerata

**Pichia** anomala

Pichia cactophila

Pichia ciferrii

Pichia fabianii

Pichia farinosa

Pichia fermentans

Pichia guilliermondii

Pichia membranaefaciens

Pichia norvegensis

Pichia sp.

**Pseudallescheria** anagosta/boydii Komplex

Pseudallescheria boydii

**Rhizomucor** pusillus

Rhizomucor sp.

**Rhizopus** microsporus

Rhizopus microsporus var. rhizopodiformis

Rhizopus sp.

**Rhodotorula** glutinis

Rhodotorula glutinis var. glutinis

Rhodotorula minuta

Rhodotorula mucilaginosa

Rhodotorula sp.

**Saccharomyces** cerevisiae

Saccharomyces pastorianus

**Scedosporium** apiospermum

**Schizophyllum** commune

**Scopulariopsis** acremonium

Scopulariopsis brevicaulis

**Selenophoma** mahoniae

**Sepedonium** ampullosporum

Sepedonium chalcipori

Sepedonium chlorium

Sepedonium chrysospermum

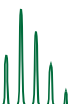
Sepedonium levigatum

Sepedonium sp.

**Serpula** himantioides

Serpula lacrymans

**Simplicillium** sp.



**Sporothrix** schenkii  
**Stephanoascus** ciferrii  
Stephanoascus farinosus  
Stephanoascus smithiae  
**Syncephalastrum** racemosum  
**Tolypocladium** inflatum  
**Trichoderma** asperellum  
Trichoderma atroviride  
Trichoderma brevicompactum  
Trichoderma cf. brevicompactum  
Trichoderma harzianum  
Trichoderma reesei  
Trichoderma sp.  
Trichoderma virens  
**Trichophyton** balcaneum  
Trichophyton eboreum  
Trichophyton equinum  
Trichophyton interdigitale  
Trichophyton mentagrophytes  
Trichophyton rubrum  
Trichophyton rubrum var. raubitschekii  
Trichophyton schoenleinii  
Trichophyton soudanense  
Trichophyton sp.  
Trichophyton terrestre  
Trichophyton thuringiense  
Trichophyton tonsurans  
Trichophyton verrucosum  
Trichophyton verrucosum var. ochraceum  
Trichophyton violaceum  
**Trichosporon** asahii  
Trichosporon capitatum  
Trichosporon cutaneum  
Trichosporon deburmannianum  
Trichosporon inkin  
Trichosporon mucoides  
Trichosporon sp.  
**Yarrowia** lipolytica  
**Zygosaccharomyces** sp.

