# MeSH Tree Structures - 2012

## B3 - ORGANISMS-BACTERIA

**Bacteria**

| | | | |
|---|---|---|---|
| Bacteria | B3 | | |
| Acidobacteria | B3.26 | B3.440. | |
| Agricultural Inoculants | B3.54 | B1.300. | |
| Atypical Bacterial Forms | B3.110 | B5.110 | |
| L Forms | B3.110.422 | B5.110. | |
| Spheroplasts | B3.110.761 | A11.868 | B5.110. |
| Bacteria, Aerobic | B3.120 | | |
| Bacteria, Anaerobic | B3.130 | | |
| Bacteroidetes | B3.140 | | |
| Bacteroidaceae | B3.140.94 | B3.440. | |
| Bacteroides | B3.140.94.152 | B3.440. | |
| Bacteroides fragilis | B3.140.94.152.400 | B3.440. | |
| Porphyromonas | B3.140.94.625 | B3.440. | |
| Porphyromonas endodontalis | B3.140.94.625.350 | B3.440. | |
| Porphyromonas gingivalis | B3.140.94.625.515 | B3.440. | |
| Prevotella | B3.140.94.640 | B3.440. | |
| Prevotella intermedia | B3.140.94.640.375 | B3.440. | |
| Prevotella melaninogenica | B3.140.94.640.500 | B3.440. | |
| Prevotella nigrescens | B3.140.94.640.550 | B3.440. | |
| Prevotella ruminicola | B3.140.94.640.700 | B3.440. | |
| Cytophagaceae | B3.140.130 | B3.440. | |
| Cytophaga | B3.140.130.150 | B3.440. | |
| Flexibacter | B3.140.130.200 | B3.440. | |
| Flavobacteriaceae | B3.140.190 | B3.440. | |
| Capnocytophaga | B3.140.190.100 | B3.440. | |
| Chryseobacterium | B3.140.190.120 | B3.440. | |
| Flavobacterium | B3.140.190.250 | B3.440. | |
| Ornithobacterium | B3.140.190.600 | B3.440. | B3.440. |
| Riemerella | B3.140.190.700 | B3.440. | |
| Tenacibaculum | B3.140.190.800 | B3.440. | |
| Pedobacter | B3.140.600 | B3.440. | |
| Rhodothermus | B3.140.750 | B3.440. | |
| Sphingobacterium | B3.140.800 | B3.440. | |
| Blood-Borne Pathogens | B3.165 | B1.300. | B2.50 |
| | | B4.909. | |
| Chlorobi | B3.250 | | |
| Chlorobium | B3.250.140 | B3.440. | |
| Chloroflexi | B3.275 | | |
| Chloroflexus | B3.275.150 | B3.440. | |
| Cyanobacteria | B3.280 | B3.440. | |
| Anabaena | B3.280.100 | B3.440. | |
| Anabaena cylindrica | B3.280.100.150 | B3.440. | |
| Anabaena flos-aquae | B3.280.100.300 | B3.440. | |
| Anabaena variabilis | B3.280.100.900 | B3.440. | |
| Aphanizomenon | B3.280.110 | B3.440. | |
| Cyanothece | B3.280.200 | B3.440. | |
| Cylindrospermopsis | B3.280.210 | B3.440. | |
| Microcystis | B3.280.500 | B3.440. | |
| Nodularia | B3.280.550 | B3.440. | |
| Nostoc | B3.280.575 | B3.440. | |
| Nostoc commune | B3.280.575.150 | B3.440. | |
| Nostoc muscorum | B3.280.575.500 | B3.440. | |
| Oscillatoria | B3.280.612 | B3.440. | |
| Plectonema | B3.280.650 | B3.440. | |
| Spirulina | B3.280.697 | | |
| Synechococcus | B3.280.745 | B3.440. | |
| Synechocystis | B3.280.750 | B3.440. | |
| Endospore-Forming Bacteria | B3.300 | | |

# B3 - ORGANISMS-BACTERIA

**Bacteria**
- **Endospore-Forming Bacteria**
  - **Gram-Positive Endospore-Forming Bacteria**

| | | | |
|---|---|---|---|
| **Gram-Positive Endospore-Forming Bacteria** | B3.300.390 | B3.510. | |
| **Gram-Positive Endospore-Forming Rods** | B3.300.390.400 | B3.510. | B3.510. |
| **Bacillaceae** | B3.300.390.400.158 | B3.510. | B3.510. |
| | | B3.510. | |
| **Anoxybacillus** | B3.300.390.400.158.108 | B3.510. | B3.510. |
| | | B3.510. | |
| **Bacillus** | B3.300.390.400.158.218 | B3.510. | B3.510. |
| | | B3.510. | |
| **Bacillus anthracis** | B3.300.390.400.158.218.151 | B3.510. | B3.510. |
| | | B3.510. | |
| **Bacillus cereus** | B3.300.390.400.158.218.252 | B3.510. | B3.510. |
| | | B3.510. | |
| **Bacillus megaterium** | B3.300.390.400.158.218.500 | B3.510. | B3.510. |
| | | B3.510. | |
| **Bacillus subtilis** | B3.300.390.400.158.218.725 | B3.510. | B3.510. |
| | | B3.510. | |
| **Bacillus thuringiensis** | B3.300.390.400.158.218.800 | B3.510. | B3.510. |
| | | B3.510. | |
| **Geobacillus** | B3.300.390.400.158.400 | B3.510. | B3.510. |
| | | B3.510. | |
| **Geobacillus stearothermophilus** | B3.300.390.400.158.400.400 | B3.510. | B3.510. |
| | | B3.510. | |
| **Halobacillus** | B3.300.390.400.158.600 | B3.510. | B3.510. |
| | | B3.510. | |
| **Thermoactinomyces** | B3.300.390.400.158.800 | B3.300. | B3.510. |
| | | B3.510. | B3.510. |
| **Virgibacillus** | B3.300.390.400.158.900 | B3.510. | B3.510. |
| **Brevibacillus** | B3.300.390.400.160 | B3.510. | B3.510. |
| | | B3.510. | |
| **Clostridium** | B3.300.390.400.200 | B3.510. | |
| **Clostridium acetobutylicum** | B3.300.390.400.200.25 | B3.510. | |
| **Clostridium beijerinckii** | B3.300.390.400.200.100 | B3.510. | |
| **Clostridium bifermentans** | B3.300.390.400.200.130 | B3.510. | |
| **Clostridium botulinum** | B3.300.390.400.200.160 | B3.510. | |
| **Clostridium botulinum type A** | B3.300.390.400.200.160.50 | B3.510. | |
| **Clostridium botulinum type B** | B3.300.390.400.200.160.100 | B3.510. | |
| **Clostridium botulinum type C** | B3.300.390.400.200.160.150 | B3.510. | |
| **Clostridium botulinum type D** | B3.300.390.400.200.160.200 | B3.510. | |
| **Clostridium botulinum type E** | B3.300.390.400.200.160.250 | B3.510. | |
| **Clostridium botulinum type F** | B3.300.390.400.200.160.300 | B3.510. | |
| **Clostridium botulinum type G** | B3.300.390.400.200.160.350 | B3.510. | |
| **Clostridium butyricum** | B3.300.390.400.200.180 | B3.510. | |
| **Clostridium cellulolyticum** | B3.300.390.400.200.200 | B3.510. | |
| **Clostridium cellulovorans** | B3.300.390.400.200.205 | B3.510. | |
| **Clostridium chauvoei** | B3.300.390.400.200.215 | B3.510. | |
| **Clostridium difficile** | B3.300.390.400.200.250 | B3.510. | |
| **Clostridium histolyticum** | B3.300.390.400.200.412 | B3.510. | |
| **Clostridium kluyveri** | B3.300.390.400.200.493 | B3.510. | |
| **Clostridium perfringens** | B3.300.390.400.200.575 | B3.510. | |
| **Clostridium septicum** | B3.300.390.400.200.690 | B3.510. | |
| **Clostridium sordellii** | B3.300.390.400.200.700 | B3.510. | |
| **Clostridium sticklandii** | B3.300.390.400.200.710 | B3.510. | |
| **Clostridium symbiosum** | B3.300.390.400.200.713 | B3.510. | |
| **Clostridium tertium** | B3.300.390.400.200.722 | B3.510. | |
| **Clostridium tetani** | B3.300.390.400.200.725 | B3.510. | |
| **Clostridium tetanomorphum** | B3.300.390.400.200.740 | B3.510. | |
| **Clostridium thermocellum** | B3.300.390.400.200.770 | B3.510. | |
| **Clostridium tyrobutyricum** | B3.300.390.400.200.800 | B3.510. | |

## B3 - ORGANISMS-BACTERIA

| | | | |
|---|---|---|---|
| **Bacteria** | | | |
| **Endospore-Forming Bacteria** | | | |
| **Gram-Positive Endospore-Forming Bacteria** | | | |
| **Gram-Positive Endospore-Forming Rods** | | | |
| **Micromonosporaceae** | | | |
| **Micromonosporaceae** | B3.300.390.400.500 | B3.510. | B3.510. |
| | | B3.510. | |
| **Micromonospora** | B3.300.390.400.500.500 | B3.510. | B3.510. |
| | | B3.510. | |
| **Moorella** | B3.300.390.400.525 | B3.510. | B3.510. |
| **Paenibacillus** | B3.300.390.400.645 | B3.510. | B3.510. |
| | | B3.510. | |
| **Saccharopolyspora** | B3.300.390.400.790 | B3.510. | B3.510. |
| | | B3.510. | |
| **Staphylococcaceae** | B3.300.390.400.800 | B3.510. | B3.510. |
| **Staphylococcus** | B3.300.390.400.800.750 | B3.510. | B3.510. |
| **Staphylococcus aureus** | B3.300.390.400.800.750.100 | B3.510. | B3.510. |
| **Methicillin-Resistant Staphylococcus aureus** | B3.300.390.400.800.750.100.500 | B3.510. | B3.510. |
| **Staphylococcus epidermidis** | B3.300.390.400.800.750.343 | B3.510. | B3.510. |
| **Staphylococcus haemolyticus** | B3.300.390.400.800.750.400 | B3.510. | B3.510. |
| **Staphylococcus hominis** | B3.300.390.400.800.750.425 | B3.510. | B3.510. |
| **Staphylococcus hyicus** | B3.300.390.400.800.750.435 | B3.510. | B3.510. |
| **Staphylococcus intermedius** | B3.300.390.400.800.750.445 | B3.510. | B3.510. |
| **Staphylococcus lugdunensis** | B3.300.390.400.800.750.500 | B3.510. | B3.510. |
| **Staphylococcus saprophyticus** | B3.300.390.400.800.750.750 | B3.510. | B3.510. |
| **Streptomycetaceae** | B3.300.390.400.810 | B3.510. | B3.510. |
| | | B3.510. | |
| **Streptomyces** | B3.300.390.400.810.768 | B3.510. | B3.510. |
| | | B3.510. | |
| **Streptomyces antibioticus** | B3.300.390.400.810.768.100 | B3.510. | B3.510. |
| | | B3.510. | |
| **Streptomyces aureofaciens** | B3.300.390.400.810.768.125 | B3.510. | B3.510. |
| | | B3.510. | |
| **Streptomyces coelicolor** | B3.300.390.400.810.768.200 | B3.510. | B3.510. |
| | | B3.510. | |
| **Streptomyces griseus** | B3.300.390.400.810.768.375 | B3.510. | B3.510. |
| | | B3.510. | |
| **Streptomyces lividans** | B3.300.390.400.810.768.500 | B3.510. | B3.510. |
| | | B3.510. | |
| **Thermoactinomyces** | B3.300.390.400.850 | B3.300. | B3.510. |
| | | B3.510. | B3.510. |
| **Pasteuria** | B3.300.390.650 | B3.510. | B3.510. |
| **Sporosarcina** | B3.300.390.825 | B3.510. | B3.510. |
| | | B3.510. | |
| **Fibrobacteres** | B3.335 | B3.440. | |
| **Fibrobacter** | B3.335.300 | B3.440. | |
| **Fusobacteria** | B3.370 | | |
| **Fusobacterium** | B3.370.250 | B3.440. | |
| **Fusobacterium necrophorum** | B3.370.250.400 | B3.440. | |
| **Fusobacterium nucleatum** | B3.370.250.500 | B3.440. | |
| **Leptotrichia** | B3.370.437 | B3.440. | |
| **Propionigenium** | B3.370.600 | B3.440. | |
| **Streptobacillus** | B3.370.700 | B3.440. | |
| **Gram-Negative Bacteria** | B3.440 | | |
| **Anaplasmataceae** | B3.440.40 | B3.660. | |
| **Anaplasma** | B3.440.40.50 | B3.660. | |
| **Anaplasma centrale** | B3.440.40.50.100 | B3.660. | |
| **Anaplasma marginale** | B3.440.40.50.500 | B3.660. | |
| **Anaplasma ovis** | B3.440.40.50.575 | B3.660. | |
| **Anaplasma phagocytophilum** | B3.440.40.50.600 | B3.660. | |
| **Ehrlichia** | B3.440.40.287 | B3.660. | |
| **Ehrlichia canis** | B3.440.40.287.90 | B3.660. | |
| **Ehrlichia chaffeensis** | B3.440.40.287.150 | B3.660. | |
| **Ehrlichia ruminantium** | B3.440.40.287.700 | B3.660. | |

**Bacteria**
**Gram-Negative Bacteria**
**Anaplasmataceae**
**Neorickettsia**

| | | | |
|---|---|---|---|
| **Neorickettsia** | B3.440.40.525 | B3.660. | |
| **Neorickettsia risticii** | B3.440.40.525.700 | B3.660. | |
| **Neorickettsia sennetsu** | B3.440.40.525.720 | B3.660. | |
| **Arcobacter** | B3.440.50 | B3.660. | |
| **Bartonellaceae** | B3.440.90 | B3.660. | |
| **Bartonella** | B3.440.90.100 | B3.660. | |
| **Bartonella bacilliformis** | B3.440.90.100.80 | B3.660. | |
| **Bartonella henselae** | B3.440.90.100.350 | B3.660. | |
| **Bartonella quintana** | B3.440.90.100.650 | B3.660. | |
| **Brachyspira** | B3.440.97 | B3.440. | |
| **Brachyspira hyodysenteriae** | B3.440.97.100 | B3.440. | |
| **Buchnera** | B3.440.100 | B3.660. | |
| **Campylobacter** | B3.440.180 | B3.660. | |
| **Campylobacter coli** | B3.440.180.200 | B3.660. | |
| **Campylobacter fetus** | B3.440.180.325 | B3.660. | |
| **Campylobacter hyointestinalis** | B3.440.180.375 | B3.660. | |
| **Campylobacter jejuni** | B3.440.180.425 | B3.660. | |
| **Campylobacter lari** | B3.440.180.500 | B3.660. | |
| **Campylobacter rectus** | B3.440.180.650 | B3.660. | |
| **Campylobacter sputorum** | B3.440.180.700 | B3.660. | |
| **Campylobacter upsaliensis** | B3.440.180.800 | B3.660. | |
| **Chlamydiales** | B3.440.190 | | |
| **Chlamydiaceae** | B3.440.190.190 | | |
| **Chlamydia** | B3.440.190.190.190 | | |
| **Chlamydia muridarum** | B3.440.190.190.190.500 | | |
| **Chlamydia trachomatis** | B3.440.190.190.190.750 | | |
| **Chlamydophila** | B3.440.190.190.230 | | |
| **Chlamydophila pneumoniae** | B3.440.190.190.230.249 | | |
| **Chlamydophila psittaci** | B3.440.190.190.230.500 | | |
| **Chloroflexus** | B3.440.210 | B3.275. | |
| **Gram-Negative Aerobic Bacteria** | B3.440.400 | | |
| **Acidobacteria** | B3.440.400.50 | B3.26 | |
| **Caulobacter** | B3.440.400.280 | B3.440. | B3.660. |
| **Caulobacter crescentus** | B3.440.400.280.280 | B3.440. | B3.660. |
| **Gallionellaceae** | B3.440.400.400 | B3.660. | |
| **Gram-Negative Aerobic Rods and Cocci** | B3.440.400.425 | | |
| **Acetobacteraceae** | B3.440.400.425.100 | B3.660. | |
| **Acetobacter** | B3.440.400.425.100.100 | B3.660. | |
| **Acidiphilium** | B3.440.400.425.100.110 | B3.660. | |
| **Gluconobacter** | B3.440.400.425.100.550 | B3.660. | |
| **Gluconobacter oxydans** | B3.440.400.425.100.550.550 | B3.660. | |
| **Acidithiobacillus** | B3.440.400.425.103 | B3.660. | |
| **Acidithiobacillus thiooxidans** | B3.440.400.425.103.800 | B3.660. | |
| **Afipia** | B3.440.400.425.110 | B3.440. | B3.660. |
| **Alcaligenaceae** | B3.440.400.425.117 | B3.660. | |
| **Achromobacter** | B3.440.400.425.117.24 | B3.660. | |
| **Achromobacter cycloclastes** | B3.440.400.425.117.24.100 | B3.660. | |
| **Achromobacter denitrificans** | B3.440.400.425.117.24.120 | B3.660. | |
| **Alcaligenes** | B3.440.400.425.117.50 | B3.660. | |
| **Alcaligenes faecalis** | B3.440.400.425.117.50.200 | B3.660. | |
| **Bordetella** | B3.440.400.425.117.75 | B3.660. | |
| **Bordetella avium** | B3.440.400.425.117.75.99 | B3.660. | |
| **Bordetella bronchiseptica** | B3.440.400.425.117.75.200 | B3.660. | |
| **Bordetella parapertussis** | B3.440.400.425.117.75.540 | B3.660. | |
| **Bordetella pertussis** | B3.440.400.425.117.75.550 | B3.660. | |
| **Taylorella** | B3.440.400.425.117.800 | B3.660. | |
| **Taylorella equigenitalis** | B3.440.400.425.117.800.200 | B3.660. | |
| **Alteromonas** | B3.440.400.425.126 | B3.660. | |

**Bacteria**
**Gram-Negative Bacteria**
**Gram-Negative Aerobic Bacteria**
**Gram-Negative Aerobic Rods and Cocci**
**Azorhizobium**

| | | | |
|---|---|---|---|
| Azorhizobium | B3.440.400.425.127 | B3.660. | |
| Azorhizobium caulinodans | B3.440.400.425.127.100 | B3.660. | |
| Bdellovibrio | B3.440.400.425.180 | B3.660. | |
| Bradyrhizobiaceae | B3.440.400.425.200 | B3.660. | |
| Afipia | B3.440.400.425.200.40 | B3.440. | B3.660. |
| Bradyrhizobium | B3.440.400.425.200.90 | B3.440. | B3.660. |
| Nitrobacter | B3.440.400.425.200.520 | B3.660. | |
| Rhodopseudomonas | B3.440.400.425.200.700 | B3.660. | |
| Bradyrhizobium | B3.440.400.425.205 | B3.440. | B3.660. |
| Brucellaceae | B3.440.400.425.215 | B3.660. | |
| Brucella | B3.440.400.425.215.500 | B3.660. | |
| Brucella abortus | B3.440.400.425.215.500.100 | B3.660. | |
| Brucella canis | B3.440.400.425.215.500.150 | B3.660. | |
| Brucella melitensis | B3.440.400.425.215.500.500 | B3.660. | |
| Brucella ovis | B3.440.400.425.215.500.625 | B3.660. | |
| Brucella suis | B3.440.400.425.215.500.750 | B3.660. | |
| Burkholderiaceae | B3.440.400.425.251 | B3.660. | |
| Burkholderia | B3.440.400.425.251.100 | B3.660. | |
| Burkholderia cepacia complex | B3.440.400.425.251.100.110 | B3.660. | |
| Burkholderia cenocepacia | B3.440.400.425.251.100.110.490 | B3.660. | |
| Burkholderia cepacia | B3.440.400.425.251.100.110.500 | B3.660. | |
| Burkholderia gladioli | B3.440.400.425.251.100.355 | B3.660. | |
| Burkholderia mallei | B3.440.400.425.251.100.477 | B3.660. | |
| Burkholderia pseudomallei | B3.440.400.425.251.100.600 | B3.660. | |
| Cupriavidus | B3.440.400.425.251.200 | B3.660. | |
| Cupriavidus necator | B3.440.400.425.251.200.200 | B3.660. | |
| Ralstonia | B3.440.400.425.251.650 | B3.660. | |
| Ralstonia pickettii | B3.440.400.425.251.650.600 | B3.660. | |
| Ralstonia solanacearum | B3.440.400.425.251.650.750 | B3.660. | |
| Caulobacteraceae | B3.440.400.425.288 | B3.660. | |
| Caulobacter | B3.440.400.425.288.100 | B3.440. | B3.660. |
| Caulobacter crescentus | B3.440.400.425.288.100.100 | B3.440. | B3.660. |
| Comamonadaceae | B3.440.400.425.292 | B3.660. | |
| Comamonas | B3.440.400.425.292.150 | B3.660. | |
| Comamonas testosteroni | B3.440.400.425.292.150.750 | B3.660. | |
| Delftia | B3.440.400.425.292.170 | B3.660. | |
| Delftia acidovorans | B3.440.400.425.292.170.30 | B3.660. | |
| Leptothrix | B3.440.400.425.292.500 | B3.660. | |
| Sphaerotilus | B3.440.400.425.292.750 | B3.660. | |
| Coxiellaceae | B3.440.400.425.297 | B3.660. | |
| Coxiella | B3.440.400.425.297.150 | B3.660. | |
| Coxiella burnetii | B3.440.400.425.297.150.100 | B3.660. | |
| Cytophagaceae | B3.440.400.425.300 | B3.140. | |
| Cytophaga | B3.440.400.425.300.150 | B3.140. | |
| Flexibacter | B3.440.400.425.300.200 | B3.140. | |
| Flavobacteriaceae | B3.440.400.425.310 | B3.140. | |
| Chryseobacterium | B3.440.400.425.310.120 | B3.140. | |
| Flavobacterium | B3.440.400.425.310.250 | B3.140. | |
| Ornithobacterium | B3.440.400.425.310.600 | B3.140. | B3.440. |
| Riemerella | B3.440.400.425.310.700 | B3.140. | |
| Tenacibaculum | B3.440.400.425.310.800 | B3.140. | |
| Francisella | B3.440.400.425.340 | B3.660. | |
| Francisella tularensis | B3.440.400.425.340.590 | B3.660. | |
| Gluconacetobacter | B3.440.400.425.365 | B3.660. | |
| Gluconacetobacter xylinus | B3.440.400.425.365.500 | B3.660. | |
| Halomonadaceae | B3.440.400.425.377 | B3.660. | |
| Chromohalobacter | B3.440.400.425.377.249 | B3.660. | |
| Halomonas | B3.440.400.425.377.500 | B3.660. | |

**Bacteria**
- **Gram-Negative Bacteria**
  - **Gram-Negative Aerobic Bacteria**
    - **Gram-Negative Aerobic Rods and Cocci**
      - **Halothiobacillus**

| | | |
|---|---|---|
| **Halothiobacillus** | B3.440.400.425.395 | B3.660. |
| **Legionellaceae** | B3.440.400.425.450 | B3.660. |
| **Legionella** | B3.440.400.425.450.450 | B3.660. |
| **Legionella longbeachae** | B3.440.400.425.450.450.400 | B3.660. |
| **Legionella pneumophila** | B3.440.400.425.450.450.500 | B3.660. |
| **Leptospiraceae** | B3.440.400.425.475 | B3.851. |
| **Leptospira** | B3.440.400.425.475.475 | B3.851. |
| **Leptospira interrogans** | B3.440.400.425.475.475.400 | B3.851. |
| **Leptospira interrogans serovar australis** | B3.440.400.425.475.475.400.50 | B3.851. |
| **Leptospira interrogans serovar autumnalis** | B3.440.400.425.475.475.400.55 | B3.851. |
| **Leptospira interrogans serovar canicola** | B3.440.400.425.475.475.400.150 | B3.851. |
| **Leptospira interrogans serovar hebdomadis** | B3.440.400.425.475.475.400.400 | B3.851. |
| **Leptospira interrogans serovar icterohaemorrhagiae** | B3.440.400.425.475.475.400.420 | B3.851. |
| **Leptospira interrogans serovar pomona** | B3.440.400.425.475.475.400.650 | B3.851. |
| **Methylobacteriaceae** | B3.440.400.425.487 | B3.660. |
| **Methylobacterium** | B3.440.400.425.487.500 | B3.660. |
| **Methylobacterium extorquens** | B3.440.400.425.487.500.150 | B3.660. |
| **Methylococcaceae** | B3.440.400.425.500 | B3.660. |
| **Methylococcus** | B3.440.400.425.500.500 | B3.660. |
| **Methylococcus capsulatus** | B3.440.400.425.500.500.100 | B3.660. |
| **Methylomonas** | B3.440.400.425.500.505 | B3.660. |
| **Methylophilaceae** | B3.440.400.425.525 | B3.660. |
| **Methylobacillus** | B3.440.400.425.525.500 | B3.660. |
| **Methylophilus** | B3.440.400.425.525.520 | B3.660. |
| **Methylophilus methylotrophus** | B3.440.400.425.525.520.500 | B3.660. |
| **Moraxellaceae** | B3.440.400.425.537 | B3.660. |
| **Acinetobacter** | B3.440.400.425.537.50 | B3.660. |
| **Acinetobacter baumannii** | B3.440.400.425.537.50.99 | B3.660. |
| **Acinetobacter calcoaceticus** | B3.440.400.425.537.50.200 | B3.660. |
| **Moraxella** | B3.440.400.425.537.525 | B3.660. |
| **Moraxella (Branhamella) catarrhalis** | B3.440.400.425.537.525.200 | B3.660. |
| **Moraxella (Moraxella) bovis** | B3.440.400.425.537.525.500 | B3.660. |
| **Psychrobacter** | B3.440.400.425.537.650 | B3.660. |
| **Neisseriaceae** | B3.440.400.425.550 | B3.660. |
| **Kingella** | B3.440.400.425.550.400 | B3.660. |
| **Kingella kingae** | B3.440.400.425.550.400.375 | B3.660. |
| **Neisseria** | B3.440.400.425.550.550 | B3.660. |
| **Neisseria cinerea** | B3.440.400.425.550.550.125 | B3.660. |
| **Neisseria elongata** | B3.440.400.425.550.550.299 | B3.660. |
| **Neisseria gonorrhoeae** | B3.440.400.425.550.550.474 | B3.660. |
| **Neisseria lactamica** | B3.440.400.425.550.550.600 | B3.660. |
| **Neisseria meningitidis** | B3.440.400.425.550.550.641 | B3.660. |
| **Neisseria meningitidis, Serogroup A** | B3.440.400.425.550.550.641.700 | B3.660. |
| **Neisseria meningitidis, Serogroup B** | B3.440.400.425.550.550.641.710 | B3.660. |
| **Neisseria meningitidis, Serogroup C** | B3.440.400.425.550.550.641.720 | B3.660. |
| **Neisseria meningitidis, Serogroup W-135** | B3.440.400.425.550.550.641.800 | B3.660. |
| **Neisseria meningitidis, Serogroup Y** | B3.440.400.425.550.550.641.820 | B3.660. |
| **Neisseria mucosa** | B3.440.400.425.550.550.660 | B3.660. |
| **Neisseria sicca** | B3.440.400.425.550.550.800 | B3.660. |
| **Nitrosomonadaceae** | B3.440.400.425.562 | B3.660. |
| **Nitrosomonas** | B3.440.400.425.562.500 | B3.660. |
| **Nitrosomonas europaea** | B3.440.400.425.562.500.200 | B3.660. |
| **Ochrobactrum** | B3.440.400.425.575 | B3.660. |
| **Ochrobactrum anthropi** | B3.440.400.425.575.650 | B3.660. |
| **Oxalobacteraceae** | B3.440.400.425.587 | B3.660. |
| **Herbaspirillum** | B3.440.400.425.587.400 | B3.660. |
| **Paracoccus** | B3.440.400.425.600 | B3.660. |
| **Paracoccus denitrificans** | B3.440.400.425.600.380 | B3.660. |

## B3 - ORGANISMS-BACTERIA

| | | |
|---|---|---|
| **Bacteria** | | |
| **Gram-Negative Bacteria** | | |
| **Gram-Negative Aerobic Bacteria** | | |
| **Gram-Negative Aerobic Rods and Cocci** | | |
| **Paracoccus** | | |
| **Paracoccus pantotrophus** | | |
| **Paracoccus pantotrophus** | B3.440.400.425.600.690 | B3.660. |
| **Pedobacter** | B3.440.400.425.611 | B3.140. |
| **Pseudoalteromonas** | B3.440.400.425.622 | B3.660. |
| **Pseudomonadaceae** | B3.440.400.425.625 | B3.660. |
| **Azotobacter** | B3.440.400.425.625.50 | B3.660. |
| **Azotobacter vinelandii** | B3.440.400.425.625.50.850 | B3.660. |
| **Cellvibrio** | B3.440.400.425.625.150 | B3.660. |
| **Pseudomonas** | B3.440.400.425.625.625 | B3.660. |
| **Pseudomonas aeruginosa** | B3.440.400.425.625.625.100 | B3.660. |
| **Pseudomonas alcaligenes** | B3.440.400.425.625.625.120 | B3.660. |
| **Pseudomonas fluorescens** | B3.440.400.425.625.625.325 | B3.660. |
| **Pseudomonas fragi** | B3.440.400.425.625.625.350 | B3.660. |
| **Pseudomonas mendocina** | B3.440.400.425.625.625.500 | B3.660. |
| **Pseudomonas oleovorans** | B3.440.400.425.625.625.650 | B3.660. |
| **Pseudomonas pseudoalcaligenes** | B3.440.400.425.625.625.662 | B3.660. |
| **Pseudomonas putida** | B3.440.400.425.625.625.675 | B3.660. |
| **Pseudomonas stutzeri** | B3.440.400.425.625.625.750 | B3.660. |
| **Pseudomonas syringae** | B3.440.400.425.625.625.770 | B3.660. |
| **Rhizobiaceae** | B3.440.400.425.700 | B3.660. |
| **Agrobacterium** | B3.440.400.425.700.24 | B3.660. |
| **Agrobacterium tumefaciens** | B3.440.400.425.700.24.50 | B3.660. |
| **Rhizobium** | B3.440.400.425.700.800 | B3.660. |
| **Rhizobium etli** | B3.440.400.425.700.800.337 | B3.660. |
| **Rhizobium leguminosarum** | B3.440.400.425.700.800.450 | B3.660. |
| **Rhizobium phaseoli** | B3.440.400.425.700.800.600 | B3.660. |
| **Rhizobium tropici** | B3.440.400.425.700.800.800 | B3.660. |
| **Sinorhizobium** | B3.440.400.425.700.887 | B3.660. |
| **Sinorhizobium fredii** | B3.440.400.425.700.887.249 | B3.660. |
| **Sinorhizobium meliloti** | B3.440.400.425.700.887.500 | B3.660. |
| **Rhodospirillaceae** | B3.440.400.425.708 | B3.660. |
| **Azospirillum** | B3.440.400.425.708.100 | B3.660. |
| **Azospirillum brasilense** | B3.440.400.425.708.100.20 | B3.660. |
| **Azospirillum lipoferum** | B3.440.400.425.708.100.510 | B3.660. |
| **Magnetospirillum** | B3.440.400.425.708.500 | B3.660. |
| **Rhodospirillum** | B3.440.400.425.708.733 | B3.660. |
| **Rhodospirillum centenum** | B3.440.400.425.708.733.150 | B3.660. |
| **Rhodospirillum rubrum** | B3.440.400.425.708.733.650 | B3.660. |
| **Rhodothermus** | B3.440.400.425.710 | B3.140. |
| **Sphingobacterium** | B3.440.400.425.745 | B3.140. |
| **Sphingomonas** | B3.440.400.425.750 | B3.660. |
| **Thermus** | B3.440.400.425.875 | |
| **Thermus thermophilus** | B3.440.400.425.875.875 | |
| **Xanthobacter** | B3.440.400.425.935 | B3.660. |
| **Xanthomonadaceae** | B3.440.400.425.967 | B3.660. |
| **Lysobacter** | B3.440.400.425.967.500 | B3.660. |
| **Stenotrophomonas** | B3.440.400.425.967.750 | B3.660. |
| **Stenotrophomonas maltophilia** | B3.440.400.425.967.750.500 | B3.660. |
| **Xanthomonas** | B3.440.400.425.967.930 | B3.660. |
| **Xanthomonas campestris** | B3.440.400.425.967.930.100 | B3.660. |
| **Xanthomonas vesicatoria** | B3.440.400.425.967.930.850 | B3.660. |
| **Xylella** | B3.440.400.425.967.950 | B3.660. |
| **Zoogloea** | B3.440.400.425.983 | B3.660. |
| **Gram-Negative Chemolithotrophic Bacteria** | B3.440.400.450 | |
| **Thiobacillus** | B3.440.400.450.800 | B3.660. |
| **Thiotrichaceae** | B3.440.400.645 | B3.660. |
| **Beggiatoa** | B3.440.400.645.100 | B3.660. |
| **Thiothrix** | B3.440.400.645.800 | B3.660. |
| **Vitreoscilla** | B3.440.400.840 | B3.660. |

**Bacteria**
- **Gram-Negative Bacteria**
  - **Gram-Negative Anaerobic Bacteria**

| | | | |
|---|---|---|---|
| **Gram-Negative Anaerobic Bacteria** | B3.440.425 | | |
| **Gram-Negative Anaerobic Cocci** | B3.440.425.400 | | |
| **Megasphaera** | B3.440.425.400.500 | | |
| **Thiocapsa** | B3.440.425.400.750 | B3.660. | |
| **Thiocapsa roseopersicina** | B3.440.425.400.750.660 | B3.660. | |
| **Gram-Negative Anaerobic Straight, Curved, and Helical Rods** | B3.440.425.410 | | |
| **Fibrobacteres** | B3.440.425.410.47 | B3.335 | |
| **Fibrobacter** | B3.440.425.410.47.300 | B3.335. | |
| **Veillonellaceae** | B3.440.425.410.96 | | |
| **Acidaminococcus** | B3.440.425.410.96.20 | | |
| **Pectinatus** | B3.440.425.410.96.755 | | |
| **Selenomonas** | B3.440.425.410.96.877 | B3.440. | |
| **Veillonella** | B3.440.425.410.96.938 | | |
| **Anaerobiospirillum** | B3.440.425.410.145 | B3.660. | |
| **Bacteroidaceae** | B3.440.425.410.194 | B3.140. | |
| **Bacteroides** | B3.440.425.410.194.152 | B3.140. | |
| **Bacteroides fragilis** | B3.440.425.410.194.152.400 | B3.140. | |
| **Porphyromonas** | B3.440.425.410.194.625 | B3.140. | |
| **Porphyromonas endodontalis** | B3.440.425.410.194.625.350 | B3.140. | |
| **Porphyromonas gingivalis** | B3.440.425.410.194.625.515 | B3.140. | |
| **Prevotella** | B3.440.425.410.194.640 | B3.140. | |
| **Prevotella intermedia** | B3.440.425.410.194.640.375 | B3.140. | |
| **Prevotella melaninogenica** | B3.440.425.410.194.640.500 | B3.140. | |
| **Prevotella nigrescens** | B3.440.425.410.194.640.550 | B3.140. | |
| **Prevotella ruminicola** | B3.440.425.410.194.640.700 | B3.140. | |
| **Bilophila** | B3.440.425.410.200 | B3.660. | |
| **Brachyspira** | B3.440.425.410.220 | B3.440. | |
| **Brachyspira hyodysenteriae** | B3.440.425.410.220.100 | B3.440. | |
| **Butyrivibrio** | B3.440.425.410.237 | B3.510. | |
| **Chlorobium** | B3.440.425.410.275 | B3.250. | |
| **Chromatium** | B3.440.425.410.290 | B3.660. | |
| **Desulfovibrio** | B3.440.425.410.350 | B3.660. | B3.900. |
| **Desulfovibrio africanus** | B3.440.425.410.350.40 | B3.660. | B3.900. |
| **Desulfovibrio desulfuricans** | B3.440.425.410.350.150 | B3.660. | B3.900. |
| **Desulfovibrio gigas** | B3.440.425.410.350.350 | B3.660. | B3.900. |
| **Desulfovibrio vulgaris** | B3.440.425.410.350.875 | B3.660. | B3.900. |
| **Desulfuromonas** | B3.440.425.410.360 | B3.660. | B3.900. |
| **Dichelobacter nodosus** | B3.440.425.410.400 | B3.440. | B3.660. |
| **Ectothiorhodospiraceae** | B3.440.425.410.405 | B3.660. | |
| **Ectothiorhodospira** | B3.440.425.410.405.500 | B3.660. | |
| **Ectothiorhodospira shaposhnikovii** | B3.440.425.410.405.500.720 | B3.660. | |
| **Halorhodospira halophila** | B3.440.425.410.405.750 | B3.660. | |
| **Fusobacterium** | B3.440.425.410.420 | B3.370. | |
| **Fusobacterium necrophorum** | B3.440.425.410.420.400 | B3.370. | |
| **Fusobacterium nucleatum** | B3.440.425.410.420.500 | B3.370. | |
| **Geobacter** | B3.440.425.410.430 | B3.660. | |
| **Leptotrichia** | B3.440.425.410.535 | B3.370. | |
| **Oxalobacter formigenes** | B3.440.425.410.580 | B3.660. | |
| **Propionigenium** | B3.440.425.410.600 | B3.370. | |
| **Selenomonas** | B3.440.425.410.700 | B3.440. | |
| **Spirochaetaceae** | B3.440.425.410.711 | B3.851. | |
| **Borrelia** | B3.440.425.410.711.193 | B3.851. | |
| **Borrelia burgdorferi Group** | B3.440.425.410.711.193.150 | B3.851. | |
| **Borrelia burgdorferi** | B3.440.425.410.711.193.150.125 | B3.851. | |
| **Spirochaeta** | B3.440.425.410.711.679 | B3.851. | |
| **Treponema** | B3.440.425.410.711.795 | B3.851. | |
| **Treponema denticola** | B3.440.425.410.711.795.700 | B3.851. | |
| **Treponema pallidum** | B3.440.425.410.711.795.840 | B3.851. | |

Bacteria
Gram-Negative Bacteria
Gram-Negative Anaerobic Bacteria
Gram-Negative Anaerobic Straight, Curved, and Helical Rods
Succinivibrionaceae

| | | | |
|---|---|---|---|
| Succinivibrionaceae | B3.440.425.410.722 | B3.660. | |
| Thauera | B3.440.425.410.745 | B3.660. | |
| Thermotoga maritima | B3.440.425.410.750 | | |
| Thermotoga neapolitana | B3.440.425.410.760 | | |
| Wolinella | B3.440.425.410.875 | B3.660. | |
| Gram-Negative Facultatively Anaerobic Rods | B3.440.450 | | |
| Actinobacillus | B3.440.450.09 | B3.660. | |
| Actinobacillus actinomycetemcomitans | B3.440.450.09.50 | B3.660. | |
| Actinobacillus equuli | B3.440.450.09.200 | B3.660. | |
| Actinobacillus pleuropneumoniae | B3.440.450.09.580 | B3.660. | |
| Actinobacillus seminis | B3.440.450.09.675 | B3.660. | |
| Actinobacillus suis | B3.440.450.09.700 | B3.660. | |
| Aeromonadaceae | B3.440.450.19 | B3.660. | |
| Aeromonas | B3.440.450.19.25 | B3.660. | |
| Aeromonas caviae | B3.440.450.19.25.150 | B3.660. | |
| Aeromonas hydrophila | B3.440.450.19.25.380 | B3.660. | |
| Aeromonas salmonicida | B3.440.450.19.25.690 | B3.660. | |
| Azoarcus | B3.440.450.40 | B3.660. | |
| Capnocytophaga | B3.440.450.340 | B3.140. | |
| Cardiobacteriaceae | B3.440.450.342 | B3.660. | |
| Cardiobacterium | B3.440.450.342.100 | B3.660. | |
| Dichelobacter nodosus | B3.440.450.342.550 | B3.440. | B3.660. |
| Chromobacterium | B3.440.450.360 | B3.660. | |
| Eikenella | B3.440.450.400 | B3.660. | |
| Eikenella corrodens | B3.440.450.400.275 | B3.660. | |
| Enterobacteriaceae | B3.440.450.425 | B3.660. | |
| Calymmatobacterium | B3.440.450.425.180 | B3.660. | |
| Cronobacter | B3.440.450.425.198 | B3.660. | |
| Cronobacter sakazakii | B3.440.450.425.198.150 | B3.660. | |
| Citrobacter | B3.440.450.425.200 | B3.660. | |
| Citrobacter freundii | B3.440.450.425.200.275 | B3.660. | |
| Citrobacter koseri | B3.440.450.425.200.475 | B3.660. | |
| Citrobacter rodentium | B3.440.450.425.200.737 | B3.660. | |
| Edwardsiella | B3.440.450.425.260 | B3.660. | |
| Edwardsiella ictaluri | B3.440.450.425.260.340 | B3.660. | |
| Edwardsiella tarda | B3.440.450.425.260.750 | B3.660. | |
| Enterobacter | B3.440.450.425.275 | B3.660. | |
| Enterobacter aerogenes | B3.440.450.425.275.99 | B3.660. | |
| Enterobacter cloacae | B3.440.450.425.275.200 | B3.660. | |
| Erwinia | B3.440.450.425.300 | B3.660. | |
| Erwinia amylovora | B3.440.450.425.300.50 | B3.660. | |
| Escherichia | B3.440.450.425.325 | B3.660. | |
| Escherichia coli | B3.440.450.425.325.300 | B3.660. | |
| Enteropathogenic Escherichia coli | B3.440.450.425.325.300.330 | B3.660. | |
| Enterotoxigenic Escherichia coli | B3.440.450.425.325.300.340 | B3.660. | |
| Escherichia coli K12 | B3.440.450.425.325.300.360 | B3.660. | |
| Shiga-Toxigenic Escherichia coli | B3.440.450.425.325.300.800 | B3.660. | |
| Enterohemorrhagic Escherichia coli | B3.440.450.425.325.300.800.250 | B3.660. | |
| Escherichia coli O157 | B3.440.450.425.325.300.800.250.500 | B3.660. | |
| Uropathogenic Escherichia coli | B3.440.450.425.325.300.900 | B3.660. | |
| Hafnia | B3.440.450.425.375 | B3.660. | |
| Hafnia alvei | B3.440.450.425.375.50 | B3.660. | |
| Klebsiella | B3.440.450.425.425 | B3.660. | |
| Klebsiella oxytoca | B3.440.450.425.425.580 | B3.660. | |
| Klebsiella pneumoniae | B3.440.450.425.425.600 | B3.660. | |
| Kluyvera | B3.440.450.425.435 | B3.660. | |
| Morganella | B3.440.450.425.500 | B3.660. | |
| Morganella morganii | B3.440.450.425.500.500 | B3.660. | |

**Bacteria**
- **Gram-Negative Bacteria**
  - **Gram-Negative Facultatively Anaerobic Rods**
    - **Enterobacteriaceae**
      - **Pantoea**

| | | |
|---|---|---|
| **Pantoea** | B3.440.450.425.580 | B3.660. |
| **Pectobacterium** | B3.440.450.425.585 | B3.660. |
| **Pectobacterium carotovorum** | B3.440.450.425.585.120 | B3.660. |
| **Pectobacterium chrysanthemi** | B3.440.450.425.585.150 | B3.660. |
| **Photorhabdus** | B3.440.450.425.590 | B3.660. |
| **Plesiomonas** | B3.440.450.425.595 | B3.660. |
| **Proteus** | B3.440.450.425.600 | B3.660. |
| **Proteus mirabilis** | B3.440.450.425.600.501 | B3.660. |
| **Proteus penneri** | B3.440.450.425.600.650 | B3.660. |
| **Proteus vulgaris** | B3.440.450.425.600.800 | B3.660. |
| **Providencia** | B3.440.450.425.670 | B3.660. |
| **Salmonella** | B3.440.450.425.800 | B3.660. |
| **Salmonella arizonae** | B3.440.450.425.800.100 | B3.660. |
| **Salmonella enterica** | B3.440.450.425.800.200 | B3.660. |
| **Salmonella enteritidis** | B3.440.450.425.800.200.300 | B3.660. |
| **Salmonella paratyphi A** | B3.440.450.425.800.200.600 | B3.660. |
| **Salmonella paratyphi B** | B3.440.450.425.800.200.700 | B3.660. |
| **Salmonella paratyphi C** | B3.440.450.425.800.200.750 | B3.660. |
| **Salmonella typhi** | B3.440.450.425.800.200.800 | B3.660. |
| **Salmonella typhimurium** | B3.440.450.425.800.200.825 | B3.660. |
| **Serratia** | B3.440.450.425.814 | B3.660. |
| **Serratia liquefaciens** | B3.440.450.425.814.620 | B3.660. |
| **Serratia marcescens** | B3.440.450.425.814.664 | B3.660. |
| **Shigella** | B3.440.450.425.850 | B3.660. |
| **Shigella boydii** | B3.440.450.425.850.175 | B3.660. |
| **Shigella dysenteriae** | B3.440.450.425.850.350 | B3.660. |
| **Shigella flexneri** | B3.440.450.425.850.450 | B3.660. |
| **Shigella sonnei** | B3.440.450.425.850.800 | B3.660. |
| **Wigglesworthia** | B3.440.450.425.887 | B3.660. |
| **Xenorhabdus** | B3.440.450.425.890 | B3.660. |
| **Yersinia** | B3.440.450.425.900 | B3.660. |
| **Yersinia enterocolitica** | B3.440.450.425.900.300 | B3.660. |
| **Yersinia pestis** | B3.440.450.425.900.600 | B3.660. |
| **Yersinia pseudotuberculosis** | B3.440.450.425.900.615 | B3.660. |
| **Yersinia ruckeri** | B3.440.450.425.900.650 | B3.660. |
| **Gardnerella** | B3.440.450.467 | B3.510. |
| **Gardnerella vaginalis** | B3.440.450.467.800 | B3.510. |
| **Moritella** | B3.440.450.510 | B3.660. |
| **Pasteurellaceae** | B3.440.450.600 | B3.660. |
| **Haemophilus** | B3.440.450.600.450 | B3.660. |
| **Haemophilus ducreyi** | B3.440.450.600.450.125 | B3.660. |
| **Haemophilus influenzae** | B3.440.450.600.450.330 | B3.660. |
| **Haemophilus influenzae type b** | B3.440.450.600.450.330.150 | B3.660. |
| **Haemophilus paragallinarum** | B3.440.450.600.450.665 | B3.660. |
| **Haemophilus parainfluenzae** | B3.440.450.600.450.675 | B3.660. |
| **Haemophilus paraphrophilus** | B3.440.450.600.450.690 | B3.660. |
| **Haemophilus parasuis** | B3.440.450.600.450.700 | B3.660. |
| **Haemophilus somnus** | B3.440.450.600.450.750 | B3.660. |
| **Mannheimia** | B3.440.450.600.500 | B3.660. |
| **Mannheimia haemolytica** | B3.440.450.600.500.500 | B3.660. |
| **Pasteurella** | B3.440.450.600.600 | B3.660. |
| **Pasteurella multocida** | B3.440.450.600.600.500 | B3.660. |
| **Pasteurella pneumotropica** | B3.440.450.600.600.650 | B3.660. |
| **Rahnella** | B3.440.450.650 | B3.660. |
| **Shewanella** | B3.440.450.690 | B3.660. |
| **Shewanella putrefaciens** | B3.440.450.690.590 | B3.660. |
| **Streptobacillus** | B3.440.450.700 | B3.370. |
| **Vibrionaceae** | B3.440.450.900 | B3.660. |

## B3 - ORGANISMS-BACTERIA

| | | | |
|---|---|---|---|
| **Bacteria** | | | |
| **Gram-Negative Bacteria** | | | |
| **Gram-Negative Facultatively Anaerobic Rods** | | | |
| **Vibrionaceae** | | | |
| **Aliivibrio** | | | |
| **Aliivibrio** | B3.440.450.900.50 | B3.660. | |
| **Aliivibrio fischeri** | B3.440.450.900.50.860 | B3.660. | |
| **Aliivibrio salmonicida** | B3.440.450.900.50.930 | B3.660. | |
| **Listonella** | B3.440.450.900.500 | B3.660. | |
| **Photobacterium** | B3.440.450.900.604 | B3.660. | |
| **Vibrio** | B3.440.450.900.859 | B3.660. | |
| **Vibrio alginolyticus** | B3.440.450.900.859.30 | B3.660. | |
| **Vibrio cholerae** | B3.440.450.900.859.225 | B3.660. | |
| **Vibrio cholerae non-O1** | B3.440.450.900.859.225.75 | B3.660. | |
| **Vibrio cholerae O1** | B3.440.450.900.859.225.151 | B3.660. | |
| **Vibrio cholerae O139** | B3.440.450.900.859.225.200 | B3.660. | |
| **Vibrio mimicus** | B3.440.450.900.859.500 | B3.660. | |
| **Vibrio parahaemolyticus** | B3.440.450.900.859.550 | B3.660. | |
| **Vibrio vulnificus** | B3.440.450.900.859.900 | B3.660. | |
| **Zymomonas** | B3.440.450.980 | B3.660. | |
| **Gram-Negative Oxygenic Photosynthetic Bacteria** | B3.440.475 | | |
| **Cyanobacteria** | B3.440.475.100 | B3.280 | |
| **Anabaena** | B3.440.475.100.100 | B3.280. | |
| **Anabaena cylindrica** | B3.440.475.100.100.150 | B3.280. | |
| **Anabaena flos-aquae** | B3.440.475.100.100.300 | B3.280. | |
| **Anabaena variabilis** | B3.440.475.100.100.900 | B3.280. | |
| **Aphanizomenon** | B3.440.475.100.110 | B3.280. | |
| **Cyanothece** | B3.440.475.100.200 | B3.280. | |
| **Cylindrospermopsis** | B3.440.475.100.210 | B3.280. | |
| **Microcystis** | B3.440.475.100.500 | B3.280. | |
| **Nodularia** | B3.440.475.100.550 | B3.280. | |
| **Nostoc** | B3.440.475.100.575 | B3.280. | |
| **Nostoc commune** | B3.440.475.100.575.150 | B3.280. | |
| **Nostoc muscorum** | B3.440.475.100.575.500 | B3.280. | |
| **Oscillatoria** | B3.440.475.100.612 | B3.280. | |
| **Plectonema** | B3.440.475.100.650 | B3.280. | |
| **Prochlorophytes** | B3.440.475.100.655 | | |
| **Prochlorococcus** | B3.440.475.100.655.600 | | |
| **Prochloron** | B3.440.475.100.655.620 | | |
| **Prochlorothrix** | B3.440.475.100.655.640 | | |
| **Synechococcus** | B3.440.475.100.745 | B3.280. | |
| **Synechocystis** | B3.440.475.100.750 | B3.280. | |
| **Helicobacter** | B3.440.500 | B3.660. | |
| **Helicobacter felis** | B3.440.500.250 | B3.660. | |
| **Helicobacter heilmannii** | B3.440.500.350 | B3.660. | |
| **Helicobacter hepaticus** | B3.440.500.362 | B3.660. | |
| **Helicobacter mustelae** | B3.440.500.450 | B3.660. | |
| **Helicobacter pylori** | B3.440.500.550 | B3.660. | |
| **Lawsonia Bacteria** | B3.440.520 | B3.660. | |
| **Methylosinus** | B3.440.540 | B3.660. | |
| **Methylosinus trichosporium** | B3.440.540.500 | B3.660. | |
| **Oceanospirillaceae** | B3.440.595 | B3.660. | |
| **Ornithobacterium** | B3.440.602 | B3.140. | B3.440. |
| **Piscirickettsiaceae** | B3.440.612 | B3.660. | |
| **Planctomycetales** | B3.440.614 | B3.650 | |
| **Rhodobacter** | B3.440.623 | B3.660. | |
| **Rhodobacter capsulatus** | B3.440.623.225 | B3.660. | |
| **Rhodobacter sphaeroides** | B3.440.623.700 | B3.660. | |
| **Rhodomicrobium** | B3.440.645 | B3.660. | |
| **Rhodovulum** | B3.440.646 | B3.660. | |
| **Rickettsiaceae** | B3.440.647 | B3.660. | |
| **Rickettsieae** | B3.440.647.650 | B3.660. | |
| **Orientia tsutsugamushi** | B3.440.647.650.550 | B3.660. | |

## B3 - ORGANISMS-BACTERIA

| | | |
|---|---|---|
| **Bacteria** | | |
| **Gram-Negative Bacteria** | | |
| **Rickettsiaceae** | | |
| **Rickettsieae** | | |
| **Rickettsia** | | |
| **Rickettsia** | B3.440.647.650.650 | B3.660. |
| **Rickettsia akari** | B3.440.647.650.650.40 | B3.660. |
| **Rickettsia conorii** | B3.440.647.650.650.125 | B3.660. |
| **Rickettsia felis** | B3.440.647.650.650.362 | B3.660. |
| **Rickettsia prowazekii** | B3.440.647.650.650.600 | B3.660. |
| **Rickettsia rickettsii** | B3.440.647.650.650.650 | B3.660. |
| **Rickettsia typhi** | B3.440.647.650.650.810 | B3.660. |
| **Wolbachia** | B3.440.647.825 | B3.660. |
| **Roseobacter** | B3.440.680 | B3.660. |
| **Spirillaceae** | B3.440.840 | B3.660. |
| **Spirillum** | B3.440.840.750 | B3.660. |
| **Tenericutes** | B3.440.860 | |
| **Acholeplasmataceae** | B3.440.860.74 | |
| **Acholeplasma** | B3.440.860.74.150 | |
| **Acholeplasma laidlawii** | B3.440.860.74.150.500 | |
| **Phytoplasma** | B3.440.860.74.575 | |
| **Entomoplasmatales** | B3.440.860.300 | |
| **Entomoplasmataceae** | B3.440.860.300.250 | |
| **Spiroplasmataceae** | B3.440.860.300.750 | |
| **Spiroplasma** | B3.440.860.300.750.625 | |
| **Spiroplasma citri** | B3.440.860.300.750.625.500 | |
| **Mycoplasmatales** | B3.440.860.580 | |
| **Mycoplasmataceae** | B3.440.860.580.553 | |
| **Mycoplasma** | B3.440.860.580.553.553 | |
| **Mycoplasma agalactiae** | B3.440.860.580.553.553.50 | |
| **Mycoplasma arthritidis** | B3.440.860.580.553.553.75 | |
| **Mycoplasma bovigenitalium** | B3.440.860.580.553.553.195 | |
| **Mycoplasma bovis** | B3.440.860.580.553.553.200 | |
| **Mycoplasma capricolum** | B3.440.860.580.553.553.210 | |
| **Mycoplasma conjunctivae** | B3.440.860.580.553.553.220 | |
| **Mycoplasma dispar** | B3.440.860.580.553.553.267 | |
| **Mycoplasma fermentans** | B3.440.860.580.553.553.315 | |
| **Mycoplasma gallisepticum** | B3.440.860.580.553.553.345 | |
| **Mycoplasma genitalium** | B3.440.860.580.553.553.355 | |
| **Mycoplasma hominis** | B3.440.860.580.553.553.400 | |
| **Mycoplasma hyopneumoniae** | B3.440.860.580.553.553.420 | |
| **Mycoplasma hyorhinis** | B3.440.860.580.553.553.425 | |
| **Mycoplasma hyosynoviae** | B3.440.860.580.553.553.430 | |
| **Mycoplasma iowae** | B3.440.860.580.553.553.450 | |
| **Mycoplasma meleagridis** | B3.440.860.580.553.553.570 | |
| **Mycoplasma mycoides** | B3.440.860.580.553.553.585 | |
| **Mycoplasma orale** | B3.440.860.580.553.553.630 | |
| **Mycoplasma ovipneumoniae** | B3.440.860.580.553.553.635 | |
| **Mycoplasma penetrans** | B3.440.860.580.553.553.645 | |
| **Mycoplasma pneumoniae** | B3.440.860.580.553.553.650 | |
| **Mycoplasma pulmonis** | B3.440.860.580.553.553.670 | |
| **Mycoplasma salivarium** | B3.440.860.580.553.553.720 | |
| **Mycoplasma synoviae** | B3.440.860.580.553.553.770 | |
| **Ureaplasma** | B3.440.860.580.553.900 | |
| **Ureaplasma urealyticum** | B3.440.860.580.553.900.800 | |
| **Verrucomicrobia** | B3.440.930 | B3.950 |
| **Gram-Positive Bacteria** | B3.510 | |
| **Actinobacteria** | B3.510.24 | B3.510. |
| **Actinomycetales** | B3.510.24.49 | |
| **Actinomycetaceae** | B3.510.24.49.50 | B3.510. |
| **Actinomyces** | B3.510.24.49.50.50 | B3.510. |
| **Actinomyces viscosus** | B3.510.24.49.50.50.50 | B3.510. |
| **Arcanobacterium** | B3.510.24.49.50.287 | B3.510. |

## B3 - ORGANISMS-BACTERIA

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|---|---|---|---|
| **Bacteria** | | | |
| **Gram-Positive Bacteria** | | | |
| **Actinobacteria** | | | |
| **Actinomycetales** | | | |
| **Actinomycetaceae** | | | |
| **Mobiluncus** | | | |
| **Mobiluncus** | B3.510.24.49.50.525 | B3.510. | |
| **Brevibacterium** | B3.510.24.49.100 | B3.510. | |
| **Cellulomonas** | B3.510.24.49.150 | | |
| **Corynebacterium** | B3.510.24.49.180 | B3.510. | |
| **Brevibacterium flavum** | B3.510.24.49.180.100 | | |
| **Corynebacterium diphtheriae** | B3.510.24.49.180.150 | B3.510. | |
| **Corynebacterium glutamicum** | B3.510.24.49.180.300 | B3.510. | |
| **Corynebacterium pseudotuberculosis** | B3.510.24.49.180.600 | B3.510. | |
| **Corynebacterium pyogenes** | B3.510.24.49.180.625 | B3.510. | |
| **Frankia** | B3.510.24.49.250 | | |
| **Gordonia Bacterium** | B3.510.24.49.300 | | |
| **Micrococcaceae** | B3.510.24.49.475 | B3.510. | |
| **Arthrobacter** | B3.510.24.49.475.50 | B3.510. | |
| **Micrococcus** | B3.510.24.49.475.500 | B3.510. | |
| **Micrococcus luteus** | B3.510.24.49.475.500.500 | B3.510. | |
| **Micromonosporaceae** | B3.510.24.49.500 | B3.300. | B3.510. |
| | | B3.510. | |
| **Micromonospora** | B3.510.24.49.500.500 | B3.300. | B3.510. |
| | | B3.510. | |
| **Mycobacteriaceae** | B3.510.24.49.525 | B3.510. | |
| **Mycobacterium** | B3.510.24.49.525.500 | B3.510. | |
| **Mycobacterium avium** | B3.510.24.49.525.500.300 | B3.510. | |
| **Mycobacterium avium subsp. paratuberculosis** | B3.510.24.49.525.500.300.600 | B3.510. | |
| **Mycobacterium bovis** | B3.510.24.49.525.500.402 | B3.510. | |
| **Mycobacterium haemophilum** | B3.510.24.49.525.500.480 | B3.510. | |
| **Mycobacterium leprae** | B3.510.24.49.525.500.502 | B3.510. | |
| **Mycobacterium lepraemurium** | B3.510.24.49.525.500.602 | B3.510. | |
| **Mycobacterium phlei** | B3.510.24.49.525.500.640 | B3.510. | |
| **Mycobacterium tuberculosis** | B3.510.24.49.525.500.702 | B3.510. | |
| **Nontuberculous Mycobacteria** | B3.510.24.49.525.500.720 | B3.510. | |
| **Mycobacterium avium Complex** | B3.510.24.49.525.500.720.100 | B3.510. | |
| **Mycobacterium chelonae** | B3.510.24.49.525.500.720.225 | B3.510. | |
| **Mycobacterium fortuitum** | B3.510.24.49.525.500.720.325 | B3.510. | |
| **Mycobacterium kansasii** | B3.510.24.49.525.500.720.400 | B3.510. | |
| **Mycobacterium marinum** | B3.510.24.49.525.500.720.500 | B3.510. | |
| **Mycobacterium scrofulaceum** | B3.510.24.49.525.500.720.625 | B3.510. | |
| **Mycobacterium smegmatis** | B3.510.24.49.525.500.720.662 | B3.510. | |
| **Mycobacterium ulcerans** | B3.510.24.49.525.500.720.700 | B3.510. | |
| **Mycobacterium xenopi** | B3.510.24.49.525.500.720.950 | B3.510. | |
| **Nocardiaceae** | B3.510.24.49.537 | | |
| **Nocardia** | B3.510.24.49.537.550 | | |
| **Nocardia asteroides** | B3.510.24.49.537.550.550 | | |
| **Rhodococcus** | B3.510.24.49.537.775 | | |
| **Rhodococcus equi** | B3.510.24.49.537.775.700 | | |
| **Propionibacteriaceae** | B3.510.24.49.600 | B3.510. | |
| **Propionibacterium** | B3.510.24.49.600.600 | B3.510. | |
| **Propionibacterium acnes** | B3.510.24.49.600.600.600 | B3.510. | |
| **Saccharopolyspora** | B3.510.24.49.750 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomycetaceae** | B3.510.24.49.775 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces** | B3.510.24.49.775.775 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces antibioticus** | B3.510.24.49.775.775.100 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces aureofaciens** | B3.510.24.49.775.775.125 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces coelicolor** | B3.510.24.49.775.775.200 | B3.300. | B3.510. |
| | | B3.510. | |

## B3 - ORGANISMS-BACTERIA

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|---|---|---|---|
| **Bacteria** | | | |
| **Gram-Positive Bacteria** | | | |
| **Actinobacteria** | | | |
| **Actinomycetales** | | | |
| **Streptomycetaceae** | | | |
| **Streptomyces** | | | |
| **Streptomyces griseus** | B3.510.24.49.775.775.375 | B3.300.<br>B3.510. | B3.510. |
| **Streptomyces lividans** | B3.510.24.49.775.775.500 | B3.300.<br>B3.510. | B3.510. |
| **Tropheryma** | B3.510.24.49.887 | | |
| **Bifidobacterium** | B3.510.24.100 | B3.510. | |
| **Gardnerella** | B3.510.24.400 | B3.440. | |
| **Gardnerella vaginalis** | B3.510.24.400.800 | B3.440. | |
| **Bacillales** | B3.510.100 | | |
| **Alicyclobacillus** | B3.510.100.50 | B3.510. | |
| **Bacillaceae** | B3.510.100.100 | B3.300.<br>B3.510. | B3.510. |
| **Anoxybacillus** | B3.510.100.100.108 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus** | B3.510.100.100.218 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus anthracis** | B3.510.100.100.218.151 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus cereus** | B3.510.100.100.218.252 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus megaterium** | B3.510.100.100.218.500 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus subtilis** | B3.510.100.100.218.725 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus thuringiensis** | B3.510.100.100.218.800 | B3.300.<br>B3.510. | B3.510. |
| **Geobacillus** | B3.510.100.100.400 | B3.300.<br>B3.510. | B3.510. |
| **Geobacillus stearothermophilus** | B3.510.100.100.400.400 | B3.300.<br>B3.510. | B3.510. |
| **Halobacillus** | B3.510.100.100.425 | B3.300.<br>B3.510. | B3.510. |
| **Planococcaceae** | B3.510.100.100.600 | B3.510. | |
| **Sporosarcina** | B3.510.100.100.600.700 | B3.300.<br>B3.510. | B3.510. |
| **Brevibacillus** | B3.510.100.117 | B3.300.<br>B3.510. | B3.510. |
| **Brochothrix** | B3.510.100.120 | B3.510. | |
| **Gemella** | B3.510.100.310 | | |
| **Listeria** | B3.510.100.500 | B3.510. | |
| **Listeria monocytogenes** | B3.510.100.500.500 | B3.510. | |
| **Paenibacillus** | B3.510.100.645 | B3.300.<br>B3.510. | B3.510. |
| **Pasteuria** | B3.510.100.650 | B3.300. | B3.510. |
| **Staphylococcaceae** | B3.510.100.750 | B3.300. | B3.510. |
| **Staphylococcus** | B3.510.100.750.750 | B3.300. | B3.510. |
| **Staphylococcus aureus** | B3.510.100.750.750.100 | B3.300. | B3.510. |
| **Methicillin-Resistant Staphylococcus aureus** | B3.510.100.750.750.100.500 | B3.300. | B3.510. |
| **Staphylococcus epidermidis** | B3.510.100.750.750.343 | B3.300. | B3.510. |
| **Staphylococcus haemolyticus** | B3.510.100.750.750.400 | B3.300. | B3.510. |
| **Staphylococcus hominis** | B3.510.100.750.750.425 | B3.300. | B3.510. |
| **Staphylococcus hyicus** | B3.510.100.750.750.435 | B3.300. | B3.510. |
| **Staphylococcus intermedius** | B3.510.100.750.750.445 | B3.300. | B3.510. |
| **Staphylococcus lugdunensis** | B3.510.100.750.750.500 | B3.300. | B3.510. |
| **Staphylococcus saprophyticus** | B3.510.100.750.750.750 | B3.300. | B3.510. |
| **Thermoactinomyces** | B3.510.100.800 | B3.300.<br>B3.510. | B3.300.<br>B3.510. |
| **Gram-Positive Cocci** | B3.510.400 | | |
| **Aerococcus** | B3.510.400.30 | B3.510. | |

**Bacteria**
- **Gram-Positive Bacteria**
  - **Gram-Positive Cocci**
    - **Deinococcus**

| | | | |
|---|---|---|---|
| **Deinococcus** | B3.510.400.200 | | |
| **Micrococcaceae** | B3.510.400.500 | B3.510. | |
| **Micrococcus** | B3.510.400.500.500 | B3.510. | |
| **Micrococcus luteus** | B3.510.400.500.500.400 | B3.510. | |
| **Oenococcus** | B3.510.400.531 | B3.510. | |
| **Peptococcaceae** | B3.510.400.562 | | |
| **Peptococcus** | B3.510.400.562.593 | | |
| **Peptostreptococcus** | B3.510.400.625 | | |
| **Planococcaceae** | B3.510.400.630 | B3.510. | |
| **Planococcus Bacteria** | B3.510.400.630.600 | | |
| **Sporosarcina** | B3.510.400.630.700 | B3.300.<br>B3.510. | B3.510. |
| **Ruminococcus** | B3.510.400.687 | | |
| **Sarcina** | B3.510.400.750 | | |
| **Staphylococcaceae** | B3.510.400.790 | B3.300. | B3.510. |
| **Staphylococcus** | B3.510.400.790.750 | B3.300. | B3.510. |
| **Staphylococcus aureus** | B3.510.400.790.750.100 | B3.300. | B3.510. |
| **Methicillin-Resistant Staphylococcus aureus** | B3.510.400.790.750.100.500 | B3.300. | B3.510. |
| **Staphylococcus epidermidis** | B3.510.400.790.750.343 | B3.300. | B3.510. |
| **Staphylococcus haemolyticus** | B3.510.400.790.750.400 | B3.300. | B3.510. |
| **Staphylococcus hominis** | B3.510.400.790.750.425 | B3.300. | B3.510. |
| **Staphylococcus hyicus** | B3.510.400.790.750.435 | B3.300. | B3.510. |
| **Staphylococcus intermedius** | B3.510.400.790.750.445 | B3.300. | B3.510. |
| **Staphylococcus lugdunensis** | B3.510.400.790.750.500 | B3.300. | B3.510. |
| **Staphylococcus saprophyticus** | B3.510.400.790.750.750 | B3.300. | B3.510. |
| **Streptococcaceae** | B3.510.400.800 | B3.510. | |
| **Lactococcus** | B3.510.400.800.500 | B3.510. | |
| **Lactococcus lactis** | B3.510.400.800.500.400 | B3.510. | |
| **Streptococcus** | B3.510.400.800.872 | B3.510. | |
| **Streptococcus agalactiae** | B3.510.400.800.872.100 | B3.510. | |
| **Streptococcus bovis** | B3.510.400.800.872.150 | B3.510. | |
| **Streptococcus equi** | B3.510.400.800.872.225 | B3.510. | |
| **Streptococcus gordonii** | B3.510.400.800.872.260 | B3.510. | |
| **Streptococcus pneumoniae** | B3.510.400.800.872.550 | B3.510. | |
| **Streptococcus pyogenes** | B3.510.400.800.872.575 | B3.510. | |
| **Streptococcus suis** | B3.510.400.800.872.750 | B3.510. | |
| **Streptococcus thermophilus** | B3.510.400.800.872.800 | B3.510. | |
| **Viridans Streptococci** | B3.510.400.800.872.875 | B3.510. | |
| **Streptococcus milleri Group** | B3.510.400.800.872.875.475 | B3.510. | |
| **Streptococcus anginosus** | B3.510.400.800.872.875.475.80 | B3.510. | |
| **Streptococcus constellatus** | B3.510.400.800.872.875.475.150 | B3.510. | |
| **Streptococcus intermedius** | B3.510.400.800.872.875.475.400 | B3.510. | |
| **Streptococcus mitis** | B3.510.400.800.872.875.500 | B3.510. | |
| **Streptococcus mutans** | B3.510.400.800.872.875.520 | B3.510. | |
| **Streptococcus oralis** | B3.510.400.800.872.875.600 | B3.510. | |
| **Streptococcus sanguis** | B3.510.400.800.872.875.700 | B3.510. | |
| **Streptococcus sobrinus** | B3.510.400.800.872.875.750 | B3.510. | |
| **Gram-Positive Endospore-Forming Bacteria** | B3.510.415 | B3.300. | |
| **Gram-Positive Endospore-Forming Rods** | B3.510.415.400 | B3.300. | B3.510. |
| **Alicyclobacillus** | B3.510.415.400.78 | B3.510. | |
| **Bacillaceae** | B3.510.415.400.158 | B3.300.<br>B3.510. | B3.510. |
| **Anoxybacillus** | B3.510.415.400.158.108 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus** | B3.510.415.400.158.218 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus anthracis** | B3.510.415.400.158.218.151 | B3.300.<br>B3.510. | B3.510. |

## B3 - ORGANISMS-BACTERIA

| | | | |
|---|---|---|---|
| **Bacteria** | | | |
| **Gram-Positive Bacteria** | | | |
| **Gram-Positive Endospore-Forming Bacteria** | | | |
| **Gram-Positive Endospore-Forming Rods** | | | |
| **Bacillaceae** | | | |
| **Bacillus** | | | |
| **Bacillus cereus** | B3.510.415.400.158.218.252 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus megaterium** | B3.510.415.400.158.218.500 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus subtilis** | B3.510.415.400.158.218.725 | B3.300.<br>B3.510. | B3.510. |
| **Bacillus thuringiensis** | B3.510.415.400.158.218.800 | B3.300.<br>B3.510. | B3.510. |
| **Geobacillus** | B3.510.415.400.158.400 | B3.300.<br>B3.510. | B3.510. |
| **Geobacillus stearothermophilus** | B3.510.415.400.158.400.400 | B3.300.<br>B3.510. | B3.510. |
| **Halobacillus** | B3.510.415.400.158.425 | B3.300.<br>B3.510. | B3.510. |
| **Virgibacillus** | B3.510.415.400.158.900 | B3.300. | B3.510. |
| **Brevibacillus** | B3.510.415.400.179 | B3.300.<br>B3.510. | B3.510. |
| **Clostridium** | B3.510.415.400.200 | B3.300. | |
| **Clostridium acetobutylicum** | B3.510.415.400.200.25 | B3.300. | |
| **Clostridium beijerinckii** | B3.510.415.400.200.100 | B3.300. | |
| **Clostridium bifermentans** | B3.510.415.400.200.130 | B3.300. | |
| **Clostridium botulinum** | B3.510.415.400.200.160 | B3.300. | |
| **Clostridium botulinum type A** | B3.510.415.400.200.160.50 | B3.300. | |
| **Clostridium botulinum type B** | B3.510.415.400.200.160.100 | B3.300. | |
| **Clostridium botulinum type C** | B3.510.415.400.200.160.150 | B3.300. | |
| **Clostridium botulinum type D** | B3.510.415.400.200.160.200 | B3.300. | |
| **Clostridium botulinum type E** | B3.510.415.400.200.160.250 | B3.300. | |
| **Clostridium botulinum type F** | B3.510.415.400.200.160.300 | B3.300. | |
| **Clostridium botulinum type G** | B3.510.415.400.200.160.350 | B3.300. | |
| **Clostridium butyricum** | B3.510.415.400.200.180 | B3.300. | |
| **Clostridium cellulolyticum** | B3.510.415.400.200.200 | B3.300. | |
| **Clostridium cellulovorans** | B3.510.415.400.200.205 | B3.300. | |
| **Clostridium chauvoei** | B3.510.415.400.200.215 | B3.300. | |
| **Clostridium difficile** | B3.510.415.400.200.250 | B3.300. | |
| **Clostridium histolyticum** | B3.510.415.400.200.412 | B3.300. | |
| **Clostridium kluyveri** | B3.510.415.400.200.493 | B3.300. | |
| **Clostridium perfringens** | B3.510.415.400.200.575 | B3.300. | |
| **Clostridium septicum** | B3.510.415.400.200.690 | B3.300. | |
| **Clostridium sordellii** | B3.510.415.400.200.700 | B3.300. | |
| **Clostridium sticklandii** | B3.510.415.400.200.710 | B3.300. | |
| **Clostridium symbiosum** | B3.510.415.400.200.713 | B3.300. | |
| **Clostridium tertium** | B3.510.415.400.200.722 | B3.300. | |
| **Clostridium tetani** | B3.510.415.400.200.725 | B3.300. | |
| **Clostridium tetanomorphum** | B3.510.415.400.200.740 | B3.300. | |
| **Clostridium thermocellum** | B3.510.415.400.200.770 | B3.300. | |
| **Clostridium tyrobutyricum** | B3.510.415.400.200.800 | B3.300. | |
| **Desulfotomaculum** | B3.510.415.400.230 | B3.900. | |
| **Micromonosporaceae** | B3.510.415.400.500 | B3.300.<br>B3.510. | B3.510. |
| **Micromonospora** | B3.510.415.400.500.500 | B3.300.<br>B3.510. | B3.510. |
| **Moorella** | B3.510.415.400.525 | B3.300. | B3.510. |
| **Paenibacillus** | B3.510.415.400.645 | B3.300.<br>B3.510. | B3.510. |
| **Saccharopolyspora** | B3.510.415.400.790 | B3.300.<br>B3.510. | B3.510. |
| **Streptomycetaceae** | B3.510.415.400.810 | B3.300.<br>B3.510. | B3.510. |

## B3 - ORGANISMS-BACTERIA

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|---|---|---|---|
| **Bacteria** | | | |
| **Gram-Positive Bacteria** | | | |
| **Gram-Positive Endospore-Forming Bacteria** | | | |
| **Gram-Positive Endospore-Forming Rods** | | | |
| **Streptomycetaceae** | | | |
| **Streptomyces** | | | |
| **Streptomyces** | B3.510.415.400.810.768 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces antibioticus** | B3.510.415.400.810.768.100 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces aureofaciens** | B3.510.415.400.810.768.125 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces coelicolor** | B3.510.415.400.810.768.200 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces griseus** | B3.510.415.400.810.768.375 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces lividans** | B3.510.415.400.810.768.500 | B3.300. | B3.510. |
| | | B3.510. | |
| **Thermoactinomyces** | B3.510.415.400.850 | B3.300. | B3.300. |
| | | B3.510. | B3.510. |
| **Pasteuria** | B3.510.415.650 | B3.300. | B3.510. |
| **Sporosarcina** | B3.510.415.700 | B3.300. | B3.510. |
| | | B3.510. | |
| **Gram-Positive Rods** | B3.510.460 | | |
| **Gram-Positive Asporogenous Rods** | B3.510.460.400 | | |
| **Gram-Positive Asporogenous Rods, Irregular** | B3.510.460.400.400 | | |
| **Acetobacterium** | B3.510.460.400.400.24 | | |
| **Actinobacteria** | B3.510.460.400.400.49 | B3.510. | |
| **Actinomycetaceae** | B3.510.460.400.400.49.49 | B3.510. | |
| **Actinomyces** | B3.510.460.400.400.49.49.178 | B3.510. | |
| **Actinomyces viscosus** | B3.510.460.400.400.49.49.178.800 | B3.510. | |
| **Arcanobacterium** | B3.510.460.400.400.49.49.200 | B3.510. | |
| **Mobiluncus** | B3.510.460.400.400.49.49.589 | B3.510. | |
| **Arthrobacter** | B3.510.460.400.400.49.74 | B3.510. | |
| **Bifidobacterium** | B3.510.460.400.400.49.100 | B3.510. | |
| **Brevibacterium** | B3.510.460.400.400.49.550 | B3.510. | |
| **Butyrivibrio** | B3.510.460.400.400.124 | B3.440. | |
| **Corynebacterium** | B3.510.460.400.400.200 | B3.510. | |
| **Corynebacterium diphtheriae** | B3.510.460.400.400.200.150 | B3.510. | |
| **Corynebacterium glutamicum** | B3.510.460.400.400.200.300 | B3.510. | |
| **Corynebacterium pseudotuberculosis** | B3.510.460.400.400.200.600 | B3.510. | |
| **Corynebacterium pyogenes** | B3.510.460.400.400.200.625 | B3.510. | |
| **Eubacterium** | B3.510.460.400.400.250 | | |
| **Propionibacteriaceae** | B3.510.460.400.400.600 | B3.510. | |
| **Propionibacterium** | B3.510.460.400.400.600.600 | B3.510. | |
| **Propionibacterium acnes** | B3.510.460.400.400.600.600.600 | B3.510. | |
| **Thermoanaerobacter** | B3.510.460.400.400.790 | | |
| **Thermoanaerobacterium** | B3.510.460.400.400.800 | | |
| **Gram-Positive Asporogenous Rods, Regular** | B3.510.460.400.410 | | |
| **Brochothrix** | B3.510.460.400.410.120 | B3.510. | |
| **Erysipelothrix** | B3.510.460.400.410.350 | | |
| **Lactobacillaceae** | B3.510.460.400.410.475 | B3.510. | |
| **Lactobacillus** | B3.510.460.400.410.475.475 | B3.510. | |
| **Lactobacillus acidophilus** | B3.510.460.400.410.475.475.100 | B3.510. | |
| **Lactobacillus brevis** | B3.510.460.400.410.475.475.180 | B3.510. | |
| **Lactobacillus casei** | B3.510.460.400.410.475.475.225 | B3.510. | |
| **Lactobacillus delbrueckii** | B3.510.460.400.410.475.475.250 | B3.510. | |
| **Lactobacillus fermentum** | B3.510.460.400.410.475.475.325 | B3.510. | |
| **Lactobacillus helveticus** | B3.510.460.400.410.475.475.400 | B3.510. | |
| **Lactobacillus leichmannii** | B3.510.460.400.410.475.475.506 | B3.510. | |
| **Lactobacillus plantarum** | B3.510.460.400.410.475.475.612 | B3.510. | |
| **Lactobacillus reuteri** | B3.510.460.400.410.475.475.680 | B3.510. | |
| **Lactobacillus rhamnosus** | B3.510.460.400.410.475.475.700 | B3.510. | |
| **Listeria** | B3.510.460.400.410.485 | B3.510. | |
| **Listeria monocytogenes** | B3.510.460.400.410.485.500 | B3.510. | |

## B3 - ORGANISMS-BACTERIA

| | | | |
|---|---|---|---|
| **Bacteria** | | | |
| **Gram-Positive Bacteria** | | | |
| **Gram-Positive Rods** | | | |
| **Gram-Positive Asporogenous Rods** | | | |
| **Gram-Positive Asporogenous Rods, Regular** | | | |
| **Mycobacteriaceae** | | | |
| **Mycobacteriaceae** | B3.510.460.400.410.552 | B3.510. | |
| **Mycobacterium** | B3.510.460.400.410.552.552 | B3.510. | |
| **Mycobacterium avium** | B3.510.460.400.410.552.552.300 | B3.510. | |
| **Mycobacterium avium subsp. paratuberculosis** | B3.510.460.400.410.552.552.300.600 | B3.510. | |
| **Mycobacterium bovis** | B3.510.460.400.410.552.552.402 | B3.510. | |
| **Mycobacterium haemophilum** | B3.510.460.400.410.552.552.480 | B3.510. | |
| **Mycobacterium leprae** | B3.510.460.400.410.552.552.502 | B3.510. | |
| **Mycobacterium lepraemurium** | B3.510.460.400.410.552.552.602 | B3.510. | |
| **Mycobacterium phlei** | B3.510.460.400.410.552.552.640 | B3.510. | |
| **Mycobacterium tuberculosis** | B3.510.460.400.410.552.552.702 | B3.510. | |
| **Nontuberculous Mycobacteria** | B3.510.460.400.410.552.552.720 | B3.510. | |
| **Mycobacterium avium Complex** | B3.510.460.400.410.552.552.720.100 | B3.510. | |
| **Mycobacterium chelonae** | B3.510.460.400.410.552.552.720.225 | B3.510. | |
| **Mycobacterium fortuitum** | B3.510.460.400.410.552.552.720.325 | B3.510. | |
| **Mycobacterium kansasii** | B3.510.460.400.410.552.552.720.400 | B3.510. | |
| **Mycobacterium marinum** | B3.510.460.400.410.552.552.720.500 | B3.510. | |
| **Mycobacterium scrofulaceum** | B3.510.460.400.410.552.552.720.625 | B3.510. | |
| **Mycobacterium smegmatis** | B3.510.460.400.410.552.552.720.662 | B3.510. | |
| **Mycobacterium ulcerans** | B3.510.460.400.410.552.552.720.700 | B3.510. | |
| **Mycobacterium xenopi** | B3.510.460.400.410.552.552.720.950 | B3.510. | |
| **Gram-Positive Endospore-Forming Rods** | B3.510.460.410 | B3.300. | B3.510. |
| **Bacillaceae** | B3.510.460.410.158 | B3.300. | B3.510. |
| | | B3.510. | |
| **Anoxybacillus** | B3.510.460.410.158.108 | B3.300. | B3.510. |
| | | B3.510. | |
| **Bacillus** | B3.510.460.410.158.218 | B3.300. | B3.510. |
| | | B3.510. | |
| **Bacillus anthracis** | B3.510.460.410.158.218.151 | B3.300. | B3.510. |
| | | B3.510. | |
| **Bacillus cereus** | B3.510.460.410.158.218.252 | B3.300. | B3.510. |
| | | B3.510. | |
| **Bacillus megaterium** | B3.510.460.410.158.218.500 | B3.300. | B3.510. |
| | | B3.510. | |
| **Bacillus subtilis** | B3.510.460.410.158.218.725 | B3.300. | B3.510. |
| | | B3.510. | |
| **Bacillus thuringiensis** | B3.510.460.410.158.218.800 | B3.300. | B3.510. |
| | | B3.510. | |
| **Geobacillus** | B3.510.460.410.158.400 | B3.300. | B3.510. |
| | | B3.510. | |
| **Geobacillus stearothermophilus** | B3.510.460.410.158.400.400 | B3.300. | B3.510. |
| | | B3.510. | |
| **Halobacillus** | B3.510.460.410.158.425 | B3.300. | B3.510. |
| | | B3.510. | |
| **Virgibacillus** | B3.510.460.410.158.900 | B3.300. | B3.510. |
| **Brevibacillus** | B3.510.460.410.165 | B3.300. | B3.510. |
| | | B3.510. | |
| **Micromonosporaceae** | B3.510.460.410.500 | B3.300. | B3.510. |
| | | B3.510. | |
| **Micromonospora** | B3.510.460.410.500.500 | B3.300. | B3.510. |
| | | B3.510. | |
| **Moorella** | B3.510.460.410.525 | B3.300. | B3.510. |
| **Paenibacillus** | B3.510.460.410.645 | B3.300. | B3.510. |
| | | B3.510. | |
| **Saccharopolyspora** | B3.510.460.410.790 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomycetaceae** | B3.510.460.410.810 | B3.300. | B3.510. |
| | | B3.510. | |
| **Streptomyces** | B3.510.460.410.810.768 | B3.300. | B3.510. |
| | | B3.510. | |

## B3 - ORGANISMS-BACTERIA

| | | | |
|---|---|---|---|
| **Bacteria** | | | |
| **Gram-Positive Bacteria** | | | |
| **Gram-Positive Rods** | | | |
| **Gram-Positive Endospore-Forming Rods** | | | |
| **Streptomycetaceae** | | | |
| **Streptomyces** | | | |
| **Streptomyces antibioticus** | B3.510.460.410.810.768.100 | B3.300.<br>B3.510. | B3.510. |
| **Streptomyces aureofaciens** | B3.510.460.410.810.768.125 | B3.300.<br>B3.510. | B3.510. |
| **Streptomyces coelicolor** | B3.510.460.410.810.768.200 | B3.300.<br>B3.510. | B3.510. |
| **Streptomyces griseus** | B3.510.460.410.810.768.375 | B3.300.<br>B3.510. | B3.510. |
| **Streptomyces lividans** | B3.510.460.410.810.768.500 | B3.300.<br>B3.510. | B3.510. |
| **Thermoactinomyces** | B3.510.460.410.850 | B3.300.<br>B3.510. | B3.300.<br>B3.510. |
| **Lactobacillales** | B3.510.550 | | |
| **Aerococcaceae** | B3.510.550.30 | | |
| **Abiotrophia** | B3.510.550.30.14 | | |
| **Aerococcus** | B3.510.550.30.30 | B3.510. | |
| **Carnobacteriaceae** | B3.510.550.130 | | |
| **Carnobacterium** | B3.510.550.130.150 | | |
| **Enterococcaceae** | B3.510.550.250 | | |
| **Enterococcus** | B3.510.550.250.250 | | |
| **Enterococcus faecalis** | B3.510.550.250.250.280 | | |
| **Enterococcus faecium** | B3.510.550.250.250.300 | | |
| **Lactobacillaceae** | B3.510.550.450 | B3.510. | |
| **Lactobacillus** | B3.510.550.450.475 | B3.510. | |
| **Lactobacillus acidophilus** | B3.510.550.450.475.100 | B3.510. | |
| **Lactobacillus brevis** | B3.510.550.450.475.180 | B3.510. | |
| **Lactobacillus casei** | B3.510.550.450.475.225 | B3.510. | |
| **Lactobacillus delbrueckii** | B3.510.550.450.475.250 | B3.510. | |
| **Lactobacillus fermentum** | B3.510.550.450.475.325 | B3.510. | |
| **Lactobacillus helveticus** | B3.510.550.450.475.400 | B3.510. | |
| **Lactobacillus leichmannii** | B3.510.550.450.475.506 | B3.510. | |
| **Lactobacillus plantarum** | B3.510.550.450.475.612 | B3.510. | |
| **Lactobacillus reuteri** | B3.510.550.450.475.680 | B3.510. | |
| **Lactobacillus rhamnosus** | B3.510.550.450.475.700 | B3.510. | |
| **Pediococcus** | B3.510.550.450.737 | | |
| **Leuconostocaceae** | B3.510.550.475 | | |
| **Leuconostoc** | B3.510.550.475.450 | | |
| **Oenococcus** | B3.510.550.475.600 | B3.510. | |
| **Weissella** | B3.510.550.475.900 | | |
| **Streptococcaceae** | B3.510.550.737 | B3.510. | |
| **Lactococcus** | B3.510.550.737.500 | B3.510. | |
| **Lactococcus lactis** | B3.510.550.737.500.400 | B3.510. | |
| **Streptococcus** | B3.510.550.737.872 | B3.510. | |
| **Streptococcus agalactiae** | B3.510.550.737.872.100 | B3.510. | |
| **Streptococcus bovis** | B3.510.550.737.872.150 | B3.510. | |
| **Streptococcus equi** | B3.510.550.737.872.225 | B3.510. | |
| **Streptococcus gordonii** | B3.510.550.737.872.260 | B3.510. | |
| **Streptococcus pneumoniae** | B3.510.550.737.872.550 | B3.510. | |
| **Streptococcus pyogenes** | B3.510.550.737.872.575 | B3.510. | |
| **Streptococcus suis** | B3.510.550.737.872.750 | B3.510. | |
| **Streptococcus thermophilus** | B3.510.550.737.872.800 | B3.510. | |
| **Viridans Streptococci** | B3.510.550.737.872.875 | B3.510. | |
| **Streptococcus milleri Group** | B3.510.550.737.872.875.475 | B3.510. | |
| **Streptococcus anginosus** | B3.510.550.737.872.875.475.80 | B3.510. | |
| **Streptococcus constellatus** | B3.510.550.737.872.875.475.150 | B3.510. | |
| **Streptococcus intermedius** | B3.510.550.737.872.875.475.400 | B3.510. | |
| **Streptococcus mitis** | B3.510.550.737.872.875.500 | B3.510. | |
| **Streptococcus mutans** | B3.510.550.737.872.875.520 | B3.510. | |

## B3 - ORGANISMS-BACTERIA

| | | | |
|---|---|---|---|
| **Bacteria** | | | |
| **Gram-Positive Bacteria** | | | |
| **Lactobacillales** | | | |
| **Streptococcaceae** | | | |
| **Streptococcus** | | | |
| **Viridans Streptococci** | | | |
| **Streptococcus oralis** | B3.510.550.737.872.875.600 | B3.510. | |
| **Streptococcus sanguis** | B3.510.550.737.872.875.700 | B3.510. | |
| **Streptococcus sobrinus** | B3.510.550.737.872.875.750 | B3.510. | |
| **Planctomycetales** | B3.650 | B3.440. | |
| **Proteobacteria** | B3.660 | | |
| **Alphaproteobacteria** | B3.660.50 | | |
| **Anaplasmataceae** | B3.660.50.20 | B3.440. | |
| **Anaplasma** | B3.660.50.20.50 | B3.440. | |
| **Anaplasma centrale** | B3.660.50.20.50.100 | B3.440. | |
| **Anaplasma marginale** | B3.660.50.20.50.500 | B3.440. | |
| **Anaplasma ovis** | B3.660.50.20.50.575 | B3.440. | |
| **Anaplasma phagocytophilum** | B3.660.50.20.50.600 | B3.440. | |
| **Ehrlichia** | B3.660.50.20.287 | B3.440. | |
| **Ehrlichia canis** | B3.660.50.20.287.90 | B3.440. | |
| **Ehrlichia chaffeensis** | B3.660.50.20.287.100 | B3.440. | |
| **Ehrlichia ruminantium** | B3.660.50.20.287.700 | B3.440. | |
| **Neorickettsia** | B3.660.50.20.525 | B3.440. | |
| **Neorickettsia risticii** | B3.660.50.20.525.700 | B3.440. | |
| **Neorickettsia sennetsu** | B3.660.50.20.525.720 | B3.440. | |
| **Bartonellaceae** | B3.660.50.30 | B3.440. | |
| **Bartonella** | B3.660.50.30.40 | B3.440. | |
| **Bartonella bacilliformis** | B3.660.50.30.40.80 | B3.440. | |
| **Bartonella henselae** | B3.660.50.30.40.350 | B3.440. | |
| **Bartonella quintana** | B3.660.50.30.40.650 | B3.440. | |
| **Beijerinckiaceae** | B3.660.50.32 | | |
| **Bradyrhizobiaceae** | B3.660.50.35 | B3.440. | |
| **Afipia** | B3.660.50.35.40 | B3.440. | B3.440. |
| **Bradyrhizobium** | B3.660.50.35.90 | B3.440. | B3.440. |
| **Nitrobacter** | B3.660.50.35.520 | B3.440. | |
| **Rhodopseudomonas** | B3.660.50.35.700 | B3.440. | |
| **Brucellaceae** | B3.660.50.70 | B3.440. | |
| **Brucella** | B3.660.50.70.100 | B3.440. | |
| **Brucella abortus** | B3.660.50.70.100.100 | B3.440. | |
| **Brucella canis** | B3.660.50.70.100.150 | B3.440. | |
| **Brucella melitensis** | B3.660.50.70.100.500 | B3.440. | |
| **Brucella ovis** | B3.660.50.70.100.625 | B3.440. | |
| **Brucella suis** | B3.660.50.70.100.750 | B3.440. | |
| **Ochrobactrum** | B3.660.50.70.700 | B3.440. | |
| **Ochrobactrum anthropi** | B3.660.50.70.700.650 | B3.440. | |
| **Caulobacteraceae** | B3.660.50.90 | B3.440. | |
| **Caulobacter** | B3.660.50.90.100 | B3.440. | B3.440. |
| **Caulobacter crescentus** | B3.660.50.90.100.100 | B3.440. | B3.440. |
| **Holosporaceae** | B3.660.50.340 | | |
| **Hyphomicrobiaceae** | B3.660.50.350 | | |
| **Azorhizobium** | B3.660.50.350.80 | B3.440. | |
| **Azorhizobium caulinodans** | B3.660.50.350.80.100 | B3.440. | |
| **Hyphomicrobium** | B3.660.50.350.400 | | |
| **Rhodomicrobium** | B3.660.50.350.675 | B3.440. | |
| **Xanthobacter** | B3.660.50.350.950 | B3.440. | |
| **Methylobacteriaceae** | B3.660.50.500 | B3.440. | |
| **Methylobacterium** | B3.660.50.500.500 | B3.440. | |
| **Methylobacterium extorquens** | B3.660.50.500.500.150 | B3.440. | |
| **Methylocystaceae** | B3.660.50.512 | | |
| **Methylosinus** | B3.660.50.512.500 | B3.440. | |
| **Methylosinus trichosporium** | B3.660.50.512.500.750 | B3.440. | |
| **Phyllobacteriaceae** | B3.660.50.600 | | |
| **Mesorhizobium** | B3.660.50.600.500 | | |
| **Rhodospirillales** | B3.660.50.663 | | |

**Bacteria**
**Proteobacteria**
**Alphaproteobacteria**
**Rhodospirillales**
**Acetobacteraceae**

| | | |
|---|---|---|
| Acetobacteraceae | B3.660.50.663.50 | B3.440. |
| Acetobacter | B3.660.50.663.50.10 | B3.440. |
| Acidiphilium | B3.660.50.663.50.20 | B3.440. |
| Gluconacetobacter | B3.660.50.663.50.400 | B3.440. |
| Gluconacetobacter xylinus | B3.660.50.663.50.400.500 | B3.440. |
| Gluconobacter | B3.660.50.663.50.415 | B3.440. |
| Gluconobacter oxydans | B3.660.50.663.50.415.550 | B3.440. |
| Rhodospirillaceae | B3.660.50.663.750 | B3.440. |
| Azospirillum | B3.660.50.663.750.100 | B3.440. |
| Azospirillum brasilense | B3.660.50.663.750.100.20 | B3.440. |
| Azospirillum lipoferum | B3.660.50.663.750.100.510 | B3.440. |
| Magnetospirillum | B3.660.50.663.750.500 | B3.440. |
| Rhodospirillum | B3.660.50.663.750.733 | B3.440. |
| Rhodospirillum centenum | B3.660.50.663.750.733.150 | B3.440. |
| Rhodospirillum rubrum | B3.660.50.663.750.733.650 | B3.440. |
| Rhizobiaceae | B3.660.50.730 | B3.440. |
| Agrobacterium | B3.660.50.730.24 | B3.440. |
| Agrobacterium tumefaciens | B3.660.50.730.24.500 | B3.440. |
| Rhizobium | B3.660.50.730.670 | B3.440. |
| Rhizobium etli | B3.660.50.730.670.337 | B3.440. |
| Rhizobium leguminosarum | B3.660.50.730.670.450 | B3.440. |
| Rhizobium phaseoli | B3.660.50.730.670.600 | B3.440. |
| Rhizobium tropici | B3.660.50.730.670.800 | B3.440. |
| Sinorhizobium | B3.660.50.730.835 | B3.440. |
| Sinorhizobium fredii | B3.660.50.730.835.399 | B3.440. |
| Sinorhizobium meliloti | B3.660.50.730.835.800 | B3.440. |
| Rhodobacteraceae | B3.660.50.750 | |
| Paracoccus | B3.660.50.750.600 | B3.440. |
| Paracoccus denitrificans | B3.660.50.750.600.125 | B3.440. |
| Paracoccus pantotrophus | B3.660.50.750.600.600 | B3.440. |
| Rhodobacter | B3.660.50.750.700 | B3.440. |
| Rhodobacter capsulatus | B3.660.50.750.700.225 | B3.440. |
| Rhodobacter sphaeroides | B3.660.50.750.700.700 | B3.440. |
| Rhodovulum | B3.660.50.750.725 | B3.440. |
| Roseobacter | B3.660.50.750.750 | B3.440. |
| Rickettsiaceae | B3.660.50.765 | B3.440. |
| Rickettsieae | B3.660.50.765.650 | B3.440. |
| Orientia tsutsugamushi | B3.660.50.765.650.600 | B3.440. |
| Rickettsia | B3.660.50.765.650.650 | B3.440. |
| Rickettsia akari | B3.660.50.765.650.650.40 | B3.440. |
| Rickettsia conorii | B3.660.50.765.650.650.180 | B3.440. |
| Rickettsia felis | B3.660.50.765.650.650.320 | B3.440. |
| Rickettsia prowazekii | B3.660.50.765.650.650.600 | B3.440. |
| Rickettsia rickettsii | B3.660.50.765.650.650.650 | B3.440. |
| Rickettsia typhi | B3.660.50.765.650.650.810 | B3.440. |
| Wolbachia | B3.660.50.765.825 | B3.440. |
| Sphingomonadaceae | B3.660.50.800 | |
| Sphingomonas | B3.660.50.800.750 | B3.440. |
| Zymomonas | B3.660.50.800.990 | B3.440. |
| Betaproteobacteria | B3.660.75 | |
| Alcaligenaceae | B3.660.75.27 | B3.440. |
| Achromobacter | B3.660.75.27.30 | B3.440. |
| Achromobacter cycloclastes | B3.660.75.27.30.100 | B3.440. |
| Achromobacter denitrificans | B3.660.75.27.30.120 | B3.440. |
| Alcaligenes | B3.660.75.27.50 | B3.440. |
| Alcaligenes faecalis | B3.660.75.27.50.200 | B3.440. |
| Bordetella | B3.660.75.27.75 | B3.440. |
| Bordetella avium | B3.660.75.27.75.24 | B3.440. |

| | | |
|---|---|---|
| **Bacteria** | | |
| **Proteobacteria** | | |
| **Betaproteobacteria** | | |
| **Alcaligenaceae** | | |
| **Bordetella** | | |
| **Bordetella bronchiseptica** | | |
| **Bordetella bronchiseptica** | B3.660.75.27.75.50 | B3.440. |
| **Bordetella parapertussis** | B3.660.75.27.75.590 | B3.440. |
| **Bordetella pertussis** | B3.660.75.27.75.600 | B3.440. |
| **Taylorella** | B3.660.75.27.800 | B3.440. |
| **Taylorella equigenitalis** | B3.660.75.27.800.200 | B3.440. |
| **Burkholderiaceae** | B3.660.75.77 | B3.440. |
| **Burkholderia** | B3.660.75.77.100 | B3.440. |
| **Burkholderia cepacia complex** | B3.660.75.77.100.110 | B3.440. |
| **Burkholderia cenocepacia** | B3.660.75.77.100.110.490 | B3.440. |
| **Burkholderia cepacia** | B3.660.75.77.100.110.500 | B3.440. |
| **Burkholderia gladioli** | B3.660.75.77.100.355 | B3.440. |
| **Burkholderia mallei** | B3.660.75.77.100.477 | B3.440. |
| **Burkholderia pseudomallei** | B3.660.75.77.100.600 | B3.440. |
| **Cupriavidus** | B3.660.75.77.200 | B3.440. |
| **Cupriavidus necator** | B3.660.75.77.200.200 | B3.440. |
| **Ralstonia** | B3.660.75.77.650 | B3.440. |
| **Ralstonia pickettii** | B3.660.75.77.650.600 | B3.440. |
| **Ralstonia solanacearum** | B3.660.75.77.650.750 | B3.440. |
| **Comamonadaceae** | B3.660.75.102 | B3.440. |
| **Comamonas** | B3.660.75.102.150 | B3.440. |
| **Comamonas testosteroni** | B3.660.75.102.150.750 | B3.440. |
| **Delftia** | B3.660.75.102.170 | B3.440. |
| **Delftia acidovorans** | B3.660.75.102.170.30 | B3.440. |
| **Leptothrix** | B3.660.75.102.500 | B3.440. |
| **Sphaerotilus** | B3.660.75.102.750 | B3.440. |
| **Gallionellaceae** | B3.660.75.375 | B3.440. |
| **Hydrogenophilaceae** | B3.660.75.400 | |
| **Thiobacillus** | B3.660.75.400.800 | B3.440. |
| **Methylophilaceae** | B3.660.75.495 | B3.440. |
| **Methylobacillus** | B3.660.75.495.500 | B3.440. |
| **Methylophilus** | B3.660.75.495.520 | B3.440. |
| **Methylophilus methylotrophus** | B3.660.75.495.520.500 | B3.440. |
| **Neisseriaceae** | B3.660.75.525 | B3.440. |
| **Chromobacterium** | B3.660.75.525.100 | B3.440. |
| **Eikenella** | B3.660.75.525.170 | B3.440. |
| **Eikenella corrodens** | B3.660.75.525.170.100 | B3.440. |
| **Kingella** | B3.660.75.525.410 | B3.440. |
| **Kingella kingae** | B3.660.75.525.410.410 | B3.440. |
| **Neisseria** | B3.660.75.525.520 | B3.440. |
| **Neisseria cinerea** | B3.660.75.525.520.124 | B3.440. |
| **Neisseria elongata** | B3.660.75.525.520.262 | B3.440. |
| **Neisseria gonorrhoeae** | B3.660.75.525.520.400 | B3.440. |
| **Neisseria lactamica** | B3.660.75.525.520.475 | B3.440. |
| **Neisseria meningitidis** | B3.660.75.525.520.500 | B3.440. |
| **Neisseria meningitidis, Serogroup A** | B3.660.75.525.520.500.700 | B3.440. |
| **Neisseria meningitidis, Serogroup B** | B3.660.75.525.520.500.710 | B3.440. |
| **Neisseria meningitidis, Serogroup C** | B3.660.75.525.520.500.720 | B3.440. |
| **Neisseria meningitidis, Serogroup W-135** | B3.660.75.525.520.500.800 | B3.440. |
| **Neisseria meningitidis, Serogroup Y** | B3.660.75.525.520.500.820 | B3.440. |
| **Neisseria mucosa** | B3.660.75.525.520.520 | B3.440. |
| **Neisseria sicca** | B3.660.75.525.520.760 | B3.440. |
| **Vitreoscilla** | B3.660.75.525.900 | B3.440. |
| **Nitrosomonadaceae** | B3.660.75.550 | B3.440. |
| **Nitrosomonas** | B3.660.75.550.500 | B3.440. |
| **Nitrosomonas europaea** | B3.660.75.550.500.200 | B3.440. |
| **Oxalobacteraceae** | B3.660.75.600 | B3.440. |
| **Herbaspirillum** | B3.660.75.600.400 | B3.440. |
| **Oxalobacter formigenes** | B3.660.75.600.600 | B3.440. |

Bacteria
Proteobacteria
Betaproteobacteria
Rhodocyclaceae

| | | | |
|---|---|---|---|
| Rhodocyclaceae | B3.660.75.655 | | |
| Azoarcus | B3.660.75.655.70 | B3.440. | |
| Thauera | B3.660.75.655.800 | B3.440. | |
| Zoogloea | B3.660.75.655.975 | B3.440. | |
| Spirillaceae | B3.660.75.710 | B3.440. | |
| Spirillum | B3.660.75.710.750 | B3.440. | |
| Deltaproteobacteria | B3.660.125 | | |
| Bdellovibrio | B3.660.125.50 | B3.440. | |
| Bilophila | B3.660.125.87 | B3.440. | |
| Desulfovibrio | B3.660.125.125 | B3.440. | B3.900. |
| Desulfovibrio africanus | B3.660.125.125.40 | B3.440. | B3.900. |
| Desulfovibrio desulfuricans | B3.660.125.125.150 | B3.440. | B3.900. |
| Desulfovibrio gigas | B3.660.125.125.350 | B3.440. | B3.900. |
| Desulfovibrio vulgaris | B3.660.125.125.875 | B3.440. | B3.900. |
| Desulfuromonas | B3.660.125.150 | B3.440. | B3.900. |
| Geobacter | B3.660.125.305 | B3.440. | |
| Lawsonia Bacteria | B3.660.125.460 | B3.440. | |
| Myxococcales | B3.660.125.500 | | |
| Myxococcus | B3.660.125.500.605 | | |
| Myxococcus xanthus | B3.660.125.500.605.900 | | |
| Stigmatella | B3.660.125.500.710 | | |
| Stigmatella aurantiaca | B3.660.125.500.710.50 | | |
| Epsilonproteobacteria | B3.660.150 | | |
| Arcobacter | B3.660.150.50 | B3.440. | |
| Campylobacter | B3.660.150.100 | B3.440. | |
| Campylobacter coli | B3.660.150.100.100 | B3.440. | |
| Campylobacter fetus | B3.660.150.100.220 | B3.440. | |
| Campylobacter hyointestinalis | B3.660.150.100.297 | B3.440. | |
| Campylobacter jejuni | B3.660.150.100.375 | B3.440. | |
| Campylobacter lari | B3.660.150.100.450 | B3.440. | |
| Campylobacter rectus | B3.660.150.100.700 | B3.440. | |
| Campylobacter sputorum | B3.660.150.100.740 | B3.440. | |
| Campylobacter upsaliensis | B3.660.150.100.850 | B3.440. | |
| Helicobacter | B3.660.150.280 | B3.440. | |
| Helicobacter felis | B3.660.150.280.350 | B3.440. | |
| Helicobacter heilmannii | B3.660.150.280.400 | B3.440. | |
| Helicobacter hepaticus | B3.660.150.280.410 | B3.440. | |
| Helicobacter mustelae | B3.660.150.280.480 | B3.440. | |
| Helicobacter pylori | B3.660.150.280.550 | B3.440. | |
| Wolinella | B3.660.150.920 | B3.440. | |
| Gammaproteobacteria | B3.660.250 | | |
| Acidithiobacillus | B3.660.250.15 | B3.440. | |
| Acidithiobacillus thiooxidans | B3.660.250.15.800 | B3.440. | |
| Aeromonadaceae | B3.660.250.17 | B3.440. | |
| Aeromonas | B3.660.250.17.25 | B3.440. | |
| Aeromonas caviae | B3.660.250.17.25.150 | B3.440. | |
| Aeromonas hydrophila | B3.660.250.17.25.380 | B3.440. | |
| Aeromonas salmonicida | B3.660.250.17.25.690 | B3.440. | |
| Alcanivoraceae | B3.660.250.19 | | |
| Alteromonadaceae | B3.660.250.21 | | |
| Alteromonas | B3.660.250.21.20 | B3.440. | |
| Marinobacter | B3.660.250.21.480 | | |
| Moritella | B3.660.250.21.500 | B3.440. | |
| Pseudoalteromonas | B3.660.250.21.600 | B3.440. | |
| Shewanella | B3.660.250.21.755 | B3.440. | |
| Shewanella putrefaciens | B3.660.250.21.755.750 | B3.440. | |
| Cardiobacteriaceae | B3.660.250.80 | B3.440. | |
| Cardiobacterium | B3.660.250.80.100 | B3.440. | |

## B3 - ORGANISMS-BACTERIA

| | | | |
|---|---|---|---|
| **Bacteria** | | | |
| **Proteobacteria** | | | |
| **Gammaproteobacteria** | | | |
| **Cardiobacteriaceae** | | | |
| **Dichelobacter nodosus** | | | |
| **Dichelobacter nodosus** | B3.660.250.80.550 | B3.440. | B3.440. |
| **Chromatiaceae** | B3.660.250.110 | | |
| **Chromatium** | B3.660.250.110.150 | B3.440. | |
| **Halothiobacillus** | B3.660.250.110.400 | B3.440. | |
| **Thiocapsa** | B3.660.250.110.750 | B3.440. | |
| **Thiocapsa roseopersicina** | B3.660.250.110.750.660 | B3.440. | |
| **Coxiellaceae** | B3.660.250.132 | B3.440. | |
| **Coxiella** | B3.660.250.132.150 | B3.440. | |
| **Coxiella burnetii** | B3.660.250.132.150.100 | B3.440. | |
| **Ectothiorhodospiraceae** | B3.660.250.145 | B3.440. | |
| **Ectothiorhodospira** | B3.660.250.145.500 | B3.440. | |
| **Ectothiorhodospira shaposhnikovii** | B3.660.250.145.500.720 | B3.440. | |
| **Halorhodospira halophila** | B3.660.250.145.750 | B3.440. | |
| **Enterobacteriaceae** | B3.660.250.150 | B3.440. | |
| **Buchnera** | B3.660.250.150.47 | B3.440. | |
| **Calymmatobacterium** | B3.660.250.150.95 | B3.440. | |
| **Cronobacter** | B3.660.250.150.98 | B3.440. | |
| **Cronobacter sakazakii** | B3.660.250.150.98.150 | B3.440. | |
| **Citrobacter** | B3.660.250.150.100 | B3.440. | |
| **Citrobacter freundii** | B3.660.250.150.100.210 | B3.440. | |
| **Citrobacter koseri** | B3.660.250.150.100.475 | B3.440. | |
| **Citrobacter rodentium** | B3.660.250.150.100.737 | B3.440. | |
| **Edwardsiella** | B3.660.250.150.160 | B3.440. | |
| **Edwardsiella ictaluri** | B3.660.250.150.160.340 | B3.440. | |
| **Edwardsiella tarda** | B3.660.250.150.160.750 | B3.440. | |
| **Enterobacter** | B3.660.250.150.170 | B3.440. | |
| **Enterobacter aerogenes** | B3.660.250.150.170.49 | B3.440. | |
| **Enterobacter cloacae** | B3.660.250.150.170.100 | B3.440. | |
| **Erwinia** | B3.660.250.150.175 | B3.440. | |
| **Erwinia amylovora** | B3.660.250.150.175.50 | B3.440. | |
| **Escherichia** | B3.660.250.150.180 | B3.440. | |
| **Escherichia coli** | B3.660.250.150.180.100 | B3.440. | |
| **Enteropathogenic Escherichia coli** | B3.660.250.150.180.100.330 | B3.440. | |
| **Enterotoxigenic Escherichia coli** | B3.660.250.150.180.100.340 | B3.440. | |
| **Escherichia coli K12** | B3.660.250.150.180.100.360 | B3.440. | |
| **Shiga-Toxigenic Escherichia coli** | B3.660.250.150.180.100.800 | B3.440. | |
| **Enterohemorrhagic Escherichia coli** | B3.660.250.150.180.100.800.250 | B3.440. | |
| **Escherichia coli O157** | B3.660.250.150.180.100.800.250.500 | B3.440. | |
| **Uropathogenic Escherichia coli** | B3.660.250.150.180.100.900 | B3.440. | |
| **Hafnia** | B3.660.250.150.280 | B3.440. | |
| **Hafnia alvei** | B3.660.250.150.280.50 | B3.440. | |
| **Klebsiella** | B3.660.250.150.400 | B3.440. | |
| **Klebsiella oxytoca** | B3.660.250.150.400.580 | B3.440. | |
| **Klebsiella pneumoniae** | B3.660.250.150.400.590 | B3.440. | |
| **Kluyvera** | B3.660.250.150.410 | B3.440. | |
| **Morganella** | B3.660.250.150.500 | B3.440. | |
| **Morganella morganii** | B3.660.250.150.500.500 | B3.440. | |
| **Pantoea** | B3.660.250.150.540 | B3.440. | |
| **Pectobacterium** | B3.660.250.150.542 | B3.440. | |
| **Pectobacterium carotovorum** | B3.660.250.150.542.120 | B3.440. | |
| **Pectobacterium chrysanthemi** | B3.660.250.150.542.150 | B3.440. | |
| **Photorhabdus** | B3.660.250.150.545 | B3.440. | |
| **Plesiomonas** | B3.660.250.150.550 | B3.440. | |
| **Proteus** | B3.660.250.150.590 | B3.440. | |
| **Proteus mirabilis** | B3.660.250.150.590.500 | B3.440. | |
| **Proteus penneri** | B3.660.250.150.590.670 | B3.440. | |
| **Proteus vulgaris** | B3.660.250.150.590.840 | B3.440. | |
| **Providencia** | B3.660.250.150.600 | B3.440. | |

**Bacteria**
**Proteobacteria**
**Gammaproteobacteria**
**Enterobacteriaceae**
**Rahnella**

| | | |
|---|---|---|
| **Rahnella** | B3.660.250.150.655 | B3.440. |
| **Salmonella** | B3.660.250.150.710 | B3.440. |
| **Salmonella arizonae** | B3.660.250.150.710.50 | B3.440. |
| **Salmonella enterica** | B3.660.250.150.710.160 | B3.440. |
| **Salmonella enteritidis** | B3.660.250.150.710.160.160 | B3.440. |
| **Salmonella paratyphi A** | B3.660.250.150.710.160.580 | B3.440. |
| **Salmonella paratyphi B** | B3.660.250.150.710.160.710 | B3.440. |
| **Salmonella paratyphi C** | B3.660.250.150.710.160.711 | B3.440. |
| **Salmonella typhi** | B3.660.250.150.710.160.750 | B3.440. |
| **Salmonella typhimurium** | B3.660.250.150.710.160.760 | B3.440. |
| **Serratia** | B3.660.250.150.720 | B3.440. |
| **Serratia liquefaciens** | B3.660.250.150.720.480 | B3.440. |
| **Serratia marcescens** | B3.660.250.150.720.500 | B3.440. |
| **Shigella** | B3.660.250.150.730 | B3.440. |
| **Shigella boydii** | B3.660.250.150.730.50 | B3.440. |
| **Shigella dysenteriae** | B3.660.250.150.730.125 | B3.440. |
| **Shigella flexneri** | B3.660.250.150.730.210 | B3.440. |
| **Shigella sonnei** | B3.660.250.150.730.710 | B3.440. |
| **Wigglesworthia** | B3.660.250.150.880 | B3.440. |
| **Xenorhabdus** | B3.660.250.150.910 | B3.440. |
| **Yersinia** | B3.660.250.150.950 | B3.440. |
| **Yersinia enterocolitica** | B3.660.250.150.950.160 | B3.440. |
| **Yersinia pestis** | B3.660.250.150.950.580 | B3.440. |
| **Yersinia pseudotuberculosis** | B3.660.250.150.950.590 | B3.440. |
| **Yersinia ruckeri** | B3.660.250.150.950.650 | B3.440. |
| **Francisella** | B3.660.250.200 | B3.440. |
| **Francisella tularensis** | B3.660.250.200.750 | B3.440. |
| **Halomonadaceae** | B3.660.250.350 | B3.440. |
| **Chromohalobacter** | B3.660.250.350.249 | B3.440. |
| **Halomonas** | B3.660.250.350.500 | B3.440. |
| **Legionellaceae** | B3.660.250.460 | B3.440. |
| **Legionella** | B3.660.250.460.460 | B3.440. |
| **Legionella longbeachae** | B3.660.250.460.460.480 | B3.440. |
| **Legionella pneumophila** | B3.660.250.460.460.580 | B3.440. |
| **Methylococcaceae** | B3.660.250.500 | B3.440. |
| **Methylococcus** | B3.660.250.500.500 | B3.440. |
| **Methylococcus capsulatus** | B3.660.250.500.500.100 | B3.440. |
| **Methylomonas** | B3.660.250.500.505 | B3.440. |
| **Moraxellaceae** | B3.660.250.530 | B3.440. |
| **Acinetobacter** | B3.660.250.530.50 | B3.440. |
| **Acinetobacter baumannii** | B3.660.250.530.50.99 | B3.440. |
| **Acinetobacter calcoaceticus** | B3.660.250.530.50.200 | B3.440. |
| **Moraxella** | B3.660.250.530.525 | B3.440. |
| **Moraxella (Branhamella) catarrhalis** | B3.660.250.530.525.200 | B3.440. |
| **Moraxella (Moraxella) bovis** | B3.660.250.530.525.500 | B3.440. |
| **Psychrobacter** | B3.660.250.530.650 | B3.440. |
| **Oceanospirillaceae** | B3.660.250.540 | B3.440. |
| **Marinomonas** | B3.660.250.540.500 | |
| **Pasteurellaceae** | B3.660.250.550 | B3.440. |
| **Actinobacillus** | B3.660.250.550.50 | B3.440. |
| **Actinobacillus actinomycetemcomitans** | B3.660.250.550.50.50 | B3.440. |
| **Actinobacillus equuli** | B3.660.250.550.50.200 | B3.440. |
| **Actinobacillus pleuropneumoniae** | B3.660.250.550.50.580 | B3.440. |
| **Actinobacillus seminis** | B3.660.250.550.50.675 | B3.440. |
| **Actinobacillus suis** | B3.660.250.550.50.700 | B3.440. |
| **Haemophilus** | B3.660.250.550.290 | B3.440. |
| **Haemophilus ducreyi** | B3.660.250.550.290.125 | B3.440. |
| **Haemophilus influenzae** | B3.660.250.550.290.330 | B3.440. |

## B3 - ORGANISMS-BACTERIA

| | | |
|---|---|---|
| **Bacteria** | | |
| **Proteobacteria** | | |
| **Gammaproteobacteria** | | |
| **Pasteurellaceae** | | |
| **Haemophilus** | | |
| **Haemophilus influenzae** | | |
| **Haemophilus influenzae type b** | B3.660.250.550.290.330.150 | B3.440. |
| **Haemophilus paragallinarum** | B3.660.250.550.290.665 | B3.440. |
| **Haemophilus parainfluenzae** | B3.660.250.550.290.675 | B3.440. |
| **Haemophilus paraphrophilus** | B3.660.250.550.290.690 | B3.440. |
| **Haemophilus parasuis** | B3.660.250.550.290.700 | B3.440. |
| **Haemophilus somnus** | B3.660.250.550.290.750 | B3.440. |
| **Mannheimia** | B3.660.250.550.500 | B3.440. |
| **Mannheimia haemolytica** | B3.660.250.550.500.500 | B3.440. |
| **Pasteurella** | B3.660.250.550.590 | B3.440. |
| **Pasteurella multocida** | B3.660.250.550.590.500 | B3.440. |
| **Pasteurella pneumotropica** | B3.660.250.550.590.650 | B3.440. |
| **Piscirickettsiaceae** | B3.660.250.565 | B3.440. |
| **Piscirickettsia** | B3.660.250.565.600 | |
| **Pseudomonadaceae** | B3.660.250.580 | B3.440. |
| **Azotobacter** | B3.660.250.580.22 | B3.440. |
| **Azotobacter vinelandii** | B3.660.250.580.22.820 | B3.440. |
| **Cellvibrio** | B3.660.250.580.100 | B3.440. |
| **Pseudomonas** | B3.660.250.580.590 | B3.440. |
| **Pseudomonas aeruginosa** | B3.660.250.580.590.50 | B3.440. |
| **Pseudomonas alcaligenes** | B3.660.250.580.590.70 | B3.440. |
| **Pseudomonas fluorescens** | B3.660.250.580.590.210 | B3.440. |
| **Pseudomonas fragi** | B3.660.250.580.590.230 | B3.440. |
| **Pseudomonas mendocina** | B3.660.250.580.590.500 | B3.440. |
| **Pseudomonas oleovorans** | B3.660.250.580.590.570 | B3.440. |
| **Pseudomonas pseudoalcaligenes** | B3.660.250.580.590.575 | B3.440. |
| **Pseudomonas putida** | B3.660.250.580.590.580 | B3.440. |
| **Pseudomonas stutzeri** | B3.660.250.580.590.750 | B3.440. |
| **Pseudomonas syringae** | B3.660.250.580.590.770 | B3.440. |
| **Succinivibrionaceae** | B3.660.250.740 | B3.440. |
| **Anaerobiospirillum** | B3.660.250.740.50 | B3.440. |
| **Thiotrichaceae** | B3.660.250.770 | B3.440. |
| **Beggiatoa** | B3.660.250.770.100 | B3.440. |
| **Thiothrix** | B3.660.250.770.800 | B3.440. |
| **Vibrionaceae** | B3.660.250.830 | B3.440. |
| **Aliivibrio** | B3.660.250.830.50 | B3.440. |
| **Aliivibrio fischeri** | B3.660.250.830.50.860 | B3.440. |
| **Aliivibrio salmonicida** | B3.660.250.830.50.930 | B3.440. |
| **Listonella** | B3.660.250.830.500 | B3.440. |
| **Photobacterium** | B3.660.250.830.590 | B3.440. |
| **Vibrio** | B3.660.250.830.830 | B3.440. |
| **Vibrio alginolyticus** | B3.660.250.830.830.30 | B3.440. |
| **Vibrio cholerae** | B3.660.250.830.830.100 | B3.440. |
| **Vibrio cholerae non-O1** | B3.660.250.830.830.100.75 | B3.440. |
| **Vibrio cholerae O1** | B3.660.250.830.830.100.151 | B3.440. |
| **Vibrio cholerae O139** | B3.660.250.830.830.100.200 | B3.440. |
| **Vibrio mimicus** | B3.660.250.830.830.500 | B3.440. |
| **Vibrio parahaemolyticus** | B3.660.250.830.830.590 | B3.440. |
| **Vibrio vulnificus** | B3.660.250.830.830.900 | B3.440. |
| **Xanthomonadaceae** | B3.660.250.915 | B3.440. |
| **Lysobacter** | B3.660.250.915.500 | B3.440. |
| **Stenotrophomonas** | B3.660.250.915.750 | B3.440. |
| **Stenotrophomonas maltophilia** | B3.660.250.915.750.500 | B3.440. |
| **Xanthomonas** | B3.660.250.915.930 | B3.440. |
| **Xanthomonas axonopodis** | B3.660.250.915.930.49 | |
| **Xanthomonas campestris** | B3.660.250.915.930.100 | B3.440. |
| **Xanthomonas vesicatoria** | B3.660.250.915.930.850 | B3.440. |
| **Xylella** | B3.660.250.915.950 | B3.440. |
| **Spirochaetales** | B3.851 | |

**Bacteria**
- **Spirochaetales**
  - **Leptospiraceae**

| | | | |
|---|---|---|---|
| **Leptospiraceae** | B3.851.475 | B3.440. | |
| **Leptospira** | B3.851.475.475 | B3.440. | |
| **Leptospira interrogans** | B3.851.475.475.400 | B3.440. | |
| **Leptospira interrogans serovar australis** | B3.851.475.475.400.50 | B3.440. | |
| **Leptospira interrogans serovar autumnalis** | B3.851.475.475.400.55 | B3.440. | |
| **Leptospira interrogans serovar canicola** | B3.851.475.475.400.150 | B3.440. | |
| **Leptospira interrogans serovar hebdomadis** | B3.851.475.475.400.400 | B3.440. | |
| **Leptospira interrogans serovar icterohaemorrhagiae** | B3.851.475.475.400.420 | B3.440. | |
| **Leptospira interrogans serovar pomona** | B3.851.475.475.400.650 | B3.440. | |
| **Spirochaetaceae** | B3.851.595 | B3.440. | |
| **Borrelia** | B3.851.595.193 | B3.440. | |
| **Borrelia burgdorferi Group** | B3.851.595.193.150 | B3.440. | |
| **Borrelia burgdorferi** | B3.851.595.193.150.125 | B3.440. | |
| **Spirochaeta** | B3.851.595.679 | B3.440. | |
| **Treponema** | B3.851.595.795 | B3.440. | |
| **Treponema denticola** | B3.851.595.795.200 | B3.440. | |
| **Treponema pallidum** | B3.851.595.795.840 | B3.440. | |
| **Sulfur-Reducing Bacteria** | B3.900 | | |
| **Desulfitobacterium** | B3.900.174 | | |
| **Desulfotomaculum** | B3.900.300 | B3.510. | |
| **Desulfovibrio** | B3.900.350 | B3.440. | B3.660. |
| **Desulfovibrio africanus** | B3.900.350.40 | B3.440. | B3.660. |
| **Desulfovibrio desulfuricans** | B3.900.350.150 | B3.440. | B3.660. |
| **Desulfovibrio gigas** | B3.900.350.350 | B3.440. | B3.660. |
| **Desulfovibrio vulgaris** | B3.900.350.875 | B3.440. | B3.660. |
| **Desulfuromonas** | B3.900.370 | B3.440. | B3.660. |
| **Verrucomicrobia** | B3.950 | B3.440. | |