

Table 2: Database of Bacterial Human Pathogen Ultraviolet Susceptibility Predictions

Bacteria	Type	Genome	Mean Diameter	Predicted UV k	D90 Range	
		RefSeq/NCBI #	μm	m^2/J	J/m^2	
Achromobacter xylosoxidans	H	NZ_CP043820	0.5908	0.1151	13	- 60
Acinetobacter baumannii	H	NZ_CP043953	1.3134	0.2827	7	- 30
Acinetobacter lwoffii	H	NZ_CP046296	1.3134	0.1778	11	- 48
Acinetobacter sp. VT-511	H	LFRE00000000	1.3134	0.1951	10	- 44
Actinobacillus pleuropneumoniae	Z	NZ_CP030753	0.1248	0.1008	12	- 55
Actinomyces bovis	Z	NZ_UAPQ01000012	0.7164	0.1313	12	- 55
Actinomyces gerencseriae	H	NZ_KE386871	0.7164	0.0438	37	- 166
Actinomyces israelii	H	NZ_LR134357	0.7164	0.1417	11	- 51
Actinomyces naeslundii	H	NZ_CP066049	0.6232	0.0567	27	- 124
Aerococcus sanguinicola	H	NZ_CP014160	1.0198	0.1181	15	- 68
Aerococcus urinaeis	H	NC_015278	1.0198	0.1483	12	- 54
Aerococcus viridans	Z	NZ_CP014164	1.0198	0.1003	18	- 80
Aeromonas hydrophila	H	NC_008570	0.6978	0.1849	9	- 39
Aeromonas punctata	H	NZ_AP022254	0.6978	0.1528	10	- 47
Aeromonas salmonicida	H	NC_009348	0.6978	0.1918	8	- 38
Aeromonas veronii biovar sobria	H	NC_015424	0.6978	0.1872	8	- 39
Aliarcobacter cibarius	Z	NZ_JABW01000001	0.6329	0.1515	10	- 47
Aliarcobacter butzleri	Z	NC_017187	0.6329	0.1623	10	- 43
Aliarcobacter cryaerophilus	Z	NZ_LRUS01000011	0.6329	0.1568	10	- 45
Aliarcobacter skirrowii	Z	NZ_LRUY010000006	0.6329	0.1772	9	- 40
Aliarcobacter thereius	Z	NZ_LCUJ010000001	0.6329	0.1214	13	- 58
Anaerococcus tetradius	Z	NZ_KQ955244	0.7071	0.1225	13	- 59
Anaplasma marginale	Z	NC_012026	0.7071	0.0886	18	- 82
Anaplasma phagocytophilum	H	NC_007797	0.6325	0.1094	14	- 64
Arachnia propionica	H	NZ_LR134406	0.8134	0.0447	37	- 168
Arcanobacterium haemolyticum	H	NC_014218	1.0557	0.1572	11	- 51
Austwickia chelonae	Z	NZ_FQJD01000007	1.0000	0.0473	37	- 168
Avibacterium paragallinarum	Z	NZ_CBMK010000001	0.3282	0.1093	12	- 57
Bacillus anthracis	H	NC_007530	1.4089	0.1307	15	- 67
Bacillus cereus	H	NC_004722	1.2790	0.1410	13	- 60
Bacillus megaterium	H	NZ_CP009920	1.7938	0.0699	29	- 132
Bacillus obstructivus	H	NZ_MPHG01000001	1.2790	0.1461	13	- 58
Bacillus subtilis	H/C	NC_000964	0.5620	0.1026	15	- 67
Bacteroides fragilis	H	NC_003228	1.1535	0.1312	14	- 63
Bartonella alsatica	Z	NZ_CP058235	0.5007	0.0973	15	- 69
Bartonella australis	Z	NC_020300	0.5007	0.0795	19	- 84
Bartonella bacilliformis	H	NC_008783	0.5007	0.1007	15	- 66
Bartonella bovis	Z	NZ_CM001844	0.5007	0.0787	19	- 85
Bartonella capreoli	Z	NZ_CADDZX010000001	0.5007	0.1018	14	- 66
Bartonella chomelii	Z	NZ_JACJIR010000001	0.5007	0.0881	17	- 76
Bartonella clarridgeiae	H	NC_014932	0.5007	0.0903	16	- 74
Bartonella elizabethae	H	NZ_LR134527	0.5007	0.0878	17	- 76
Bartonella grahamii	H	NC_012846	0.5007	0.1039	14	- 64
Bartonella koehlerae	H	NZ_KL407334	0.5007	0.0920	16	- 73
Bartonella phoceensis	Z	NZ_CADEAD010000001	0.5007	0.1053	14	- 64
Bartonella quintana	Z	NC_005955	0.5007	0.0882	17	- 76
Bartonella rochalimae	H	NZ_KL407337	0.5007	0.1019	14	- 66
Bartonella vinsonii	Z	NC_020301	0.5007	0.1043	14	- 64
Bartonella washoensis	H	NZ_JH725022	0.5007	0.0998	15	- 67
Bifidobacterium longum	H	NZ_AP010888	0.9640	0.1951	9	- 40
Blautia producta	Z	NZ_CP039126	0.6481	0.1033	15	- 69
Bordetella avium	Z	NZ_CP025522	0.4486	0.1272	11	- 51
Bordetella bronchiseptica	Z	NZ_LR134326	0.4486	0.0989	15	- 66
Bordetella parapertussis	H	NZ_CP025070	0.4486	0.1011	108	- 492
Bordetella pertussis	H	NC_018518	0.4486	0.0914	120	- 544
Borrelia japonica	Z	NZ_FMTE01000048	0.9170	0.0942	18	- 82
Borrelia recurrentis	H	NZ_CP000993	1.1568	0.0919	20	- 90
Borrelia afzelii	H	NC_018887	0.9170	0.0770	22	- 101
Borrelia burgdorferi	H	NZ_CP019767	0.9170	0.1312	13	- 59
Borrelia garinii	H	NZ_CP018744	0.9170	0.0978	17	- 79

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Bacteria	Type	Genome	Mean Diameter	Predicted UV k	D90 Range
		RefSeq/NCBI #	μm	m^2/J	J/m^2
Brachyspira hydysenteriae	Z	NZ_MAOY01000001	0.6569	0.1280	12 - 56
Brachyspira pilosicoli	Z	NZ_SAXY01000001	0.6569	0.1599	10 - 44
Branhamella catarrhalis	H	NC_014147	0.7746	0.1916	9 - 39
Brevundimonas diminuta	H	NZ_UJGE01000002	0.2715	0.0783	17 - 77
Brucella abortus	Z	NZ_CP008774	0.6360	0.0699	22 - 101
Brucella canis	Z	NZ_CP016975	0.6360	0.0708	22 - 100
Brucella ceti	Z	NZ_BLZI01000001	0.6360	0.0740	21 - 95
Brucella melitensis	H	NZ_WUEE01000001	0.6360	0.0689	23 - 102
Brucella neotomae	Z	NZ_UAQU01000037	0.6360	0.0705	22 - 100
Brucella ovis	Z	NZ_UFUD01000002	0.6360	0.0707	22 - 100
Brucella pinnipedalis	Z	NZ_CP061816	0.6360	0.0702	22 - 101
Brucella suis	H	NZ_CP007719	0.6360	0.0770	20 - 92
Burkholderia cenocepacia	H	NZ_MUTR01000001	0.7576	0.0674	24 - 109
Burkholderia cepacia	H	NZ_CP045235	0.7576	0.0601	27 - 123
Burkholderia contaminans	H	NZ_AP018360	0.7576	0.0683	24 - 108
Burkholderia mallei	Z	NC_006348	0.8706	0.0450	37 - 170
Burkholderia pseudomallei	Z	NC_006350	0.8361	0.0504	33 - 150
Burkholderia pseudomallei	Z	NC_006350	0.8361	0.0504	33 - 150
Campylobacter coli	H	NZ_CP028187	0.4508	0.1835	8 - 36
Campylobacter fetus	H	NZ_CP043435	0.4508	0.2862	5 - 23
Campylobacter jejuni	H	NC_002163	0.6329	0.1773	9 - 40
Campylobacter lari	H	NC_012039	0.4508	0.2011	7 - 33
Campylobacter mucosalis	Z	JHQQ01000001	0.4508	0.3948	4 - 17
Campylobacter rectus	H	NZ_ACFU01000089	0.4508	0.1298	11 - 50
Campylobacter upsaliensis	H	NZ_JHZN01000001	0.4508	0.1517	9 - 43
Capnocytophaga canimorsus	Z	NZ_PGTV01000001	0.8517	0.1278	13 - 60
Chlamydia pneumoniae	H	NC_005043	0.2828	0.0861	15 - 70
Chlamydia trachomatis	H	NC_007429	0.2828	0.0805	16 - 75
Chlamydia abortus	Z	NZ_CP021996	0.2828	0.0743	18 - 81
Chlamydia caviae	Z	NC_003361	0.2828	0.0786	17 - 77
Chlamydia felis	Z	NC_007899	0.2828	0.0739	18 - 82
Chlamydia muridarum	Z	NZ_CP007276	0.2828	0.0808	16 - 75
Citrobacter amalonaticus	H	NZ_CP011132	1.2790	0.1290	14 - 66
Citrobacter freundii	H	NZ_AOMS01000001	1.2790	0.1447	13 - 59
Citrobacter koseri	H	NC_009792	1.2790	0.1175	16 - 72
Citrobacter rodentium	H	NC_013716	1.2790	0.1484	13 - 57
Clostridium ventriculi	H	NZ_B_MV01000001	2.3238	0.1549	14 - 63
Corynebacterium bovis	Z	NZ_PQNX01000001	1.0557	0.0226	78 - 356
Corynebacterium diphtheriae	H	NZ_LN831026	1.0557	0.0796	22 - 101
Corynebacterium jeikeum	H	NC_007164	1.0557	0.0698	25 - 115
Corynebacterium kutscheri	Z	NZ_CP011312	1.0557	0.1409	13 - 57
Corynebacterium macginleyi	H	NZ_REGE01000001	1.0557	0.0688	26 - 117
Corynebacterium minutissimum	H	NZ_LS483460	1.0557	0.0661	27 - 122
Corynebacterium pseudotuberculosis	Z	NC_017301	1.0557	0.0936	19 - 86
Corynebacterium ulcerans	H	NZ_LT906443	1.0557	0.0897	20 - 90
Corynebacterium urealyticum	H	NC_010545	1.0557	0.0546	32 - 147
Coxiella burnetii	H	NC_002971	0.3248	0.0850	16 - 73
Cronobacter sakazakii	H	NZ_CP011047	0.7968	0.1324	12 - 56
Deinococcus radiodurans	N	NZ_CP031500	1.4142	0.1112	17 - 78
Dermatophilus congolensis	Z	NZ_LT906453	1.0000	0.0727	24 - 109
Edwardsiella tarda	H	NC_013508	1.1722	0.1448	13 - 57
Eggerthella lenta	H	NC_013204	0.8000	0.0495	33 - 151
Ehrlichia canis	H	NC_007354	0.7746	0.1375	12 - 54
Ehrlichia chaffeensis	H	NC_007799	0.7746	0.1361	12 - 54
Ehrlichia ruminantium	H	NZ_CP040111	0.7746	0.1435	11 - 52
Elizabethkingia anophelis	H	NZ_CP007547	0.6395	0.1511	10 - 47
Enterobacter cloacae	H	NZ_CP008823	1.4142	0.1403	14 - 62
Enterococcus avium	Z	NZ_KE136500	1.1120	0.1400	13 - 58
Enterococcus casseliflavus	H	NC_020995	1.1120	0.1177	15 - 69
Enterococcus cecorum	Z	NZ_LS483306	1.1120	0.1175	15 - 70

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Enterococcus durans	Z	NZ_JAAMRZ010000001	1.1120	0.0967	19 - 84
Enterococcus faecalis	H	NZ_KE351595	1.1120	0.0884	20 - 92
Enterococcus faecium	H	NC_017958	1.1120	0.1032	17 - 79
Enterococcus gallinarum	H	NZ_CP014067	1.1120	0.1247	14 - 65
Enterococcus hirae	Z	NZ_CP023011	1.1120	0.1097	16 - 74
Enterococcus raffinosus	H	NZ_KB946255	1.1120	0.1418	13 - 58
Erysipelothrix rhusiopathiae	Z	NC_021354	0.6776	0.0607	26 - 118
Escherichia albertii	H	NZ_CP007025	0.5469	0.1391	11 - 49
Escherichia coli	H	NC_004431	0.9422	0.1462	12 - 53
Eubacterium rectale	H	NZ_FR890957	4.4721	0.0979	24 - 107
Finegoldia magna	Z	NZ_NDYD01000032	1.1314	0.0732	25 - 112
Fluoribacter bozemanae	H	NZ_UGGY01000007	0.7271	0.1977	8 - 37
Fluoribacter dumoffii	H	NZ_LNXZ01000001	0.7271	0.1647	10 - 44
Fluoribacter gormanii	H	NZ_UGGV01000002	0.7271	0.1856	9 - 39
Francisella tularensis	H	NZ_KN046815	0.2213	0.2006	6 - 29
Fusobacterium necrophorum	Z	NZ_LVEW01000011	1.2071	0.0634	29 - 132
Fusobacterium nucleatum	H	NZ_LN831027	1.2071	0.1357	14 - 62
Glaesserella parasuis	Z	NC_011852	0.3282	0.1496	9 - 41
Grimontia hollisae	H	NZ_CP014056	0.5292	0.1391	11 - 49
Haemophilus aegyptius	H	NZ_LS483429	0.3282	0.1132	12 - 55
Haemophilus ducreyi	H	NZ_P015425	0.3282	0.1544	11 - 51
Haemophilus haemolyticus	H	NZ_LS483458	0.3282	0.1096	12 - 56
Haemophilus influenzae	H	NC_000907	0.3282	0.1035	13 - 60
Haemophilus parahaemolyticus	H	NZ_CP069510	0.3282	0.1264	11 - 49
Haemophilus parainfluenzae	H	NZ_GL872339	0.3282	0.1136	12 - 54
Hafnia alvei	H	NZ_CP009706	1.2482	0.1638	11 - 51
Helicobacter canadensis	Z	NZ_LR698957	0.9418	0.2131	8 - 37
Helicobacter cinaedi	H	NZ_AP012344	0.9418	0.1775	10 - 44
Helicobacter felis	Z	NC_014810	0.9418	0.2504	7 - 31
Helicobacter fennelliae	H	UGIB01000002	0.9418	0.1516	11 - 52
Helicobacter heilmannii	Z	NZ_CDMK01000001	0.9418	0.3144	5 - 25
Helicobacter mustelae	Z	NZ_LS483446	0.9418	0.0903	19 - 87
Helicobacter pametensis	H	NZ_FZPI01000013	0.9418	0.0660	26 - 118
Helicobacter pullorum	Z	NZ_MAJG01000001	0.9418	0.1625	11 - 48
Helicobacter pylori	H	NC_000921	0.9418	0.2132	8 - 37
Kingella kingae	H	NZ_HG427488	1.0000	0.1502	12 - 53
Klebsiella aerogenes	H	NZ_CP041925	0.5485	0.1460	10 - 47
Klebsiella oxytoca	H	NZ_CP011636	2.3554	0.1651	13 - 59
Klebsiella pneumoniae	H	NC_009648	0.5485	0.1340	11 - 51
Kluyvera intestini	H	MKZW03000008	1.0000	0.1511	12 - 53
Kocuria rhizophila	H	NC_010617	0.9713	0.0353	49 - 223
Kytococcus schroeteri	H	NZ_PKIZ01000001	0.8944	0.0480	35 - 161
Lactobacillus acidophilus	H	NZ_CP005926	0.7905	0.1572	10 - 47
Lactococcus lactis	H	NZ_LT599049	0.8485	0.1482	11 - 51
Lawsonia intracellularis	Z	NC_020127	2.5100	0.1440	15 - 68
Legionella jordanis	H	NZ_LR134383	0.7271	0.1596	10 - 46
Legionella longbeachae	H	NC_013861	0.7271	0.2085	8 - 35
Legionella oakridgensis	H	NZ_CP004006	0.7271	0.1431	11 - 51
Legionella pneumophila	H	NC_006369	0.7271	0.1881	9 - 39
Legionella wadsworthii	H	NZ_UGPB01000002	0.7271	0.1480	11 - 49
Leptonema illini	H	NZ_JH597773	0.7235	0.0825	19 - 88
Leptospira biflexa	H	NC_010602	0.7235	0.1632	10 - 45
Leptospira interrogans	H	NZ_CP020414	0.7235	0.1144	14 - 64
Listeria monocytogenes	H	NC_002973	0.7071	0.1236	13 - 59
Lysinibacillus fusiformis	H	NZ_CP010820	0.5620	0.1653	9 - 41
Mannheimia haemolytica	Z	NC_021883	0.6500	0.1580	10 - 45
Micrococcus luteus	H	NC_012803	0.3873	0.0327	43 - 194
Mobiluncus curtisii	H	NZ_CP001992	1.5907	0.0633	31 - 142
Moraxella bovis	Z	NZ_CP030241	0.7746	0.3811	4 - 19
Moraxella catarrhalis	H	NC_014147	0.7746	0.1916	9 - 39

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Morganella morganii	H	NC_020418	0.7278	0.1064	15	- 69
Mycobacterium avium	H	NC_008595	0.7643	0.0696	23	- 106
Mycobacterium avium subsp hominissuis	Z	NZ_AP020326	0.5522	0.0738	20	- 93
Mycobacterium avium subsp paratuberculosis	Z	NZ_CP033688	0.5522	0.0692	22	- 99
Mycobacterium bovis BCG	H	NZ_CP039850	0.5522	0.0797	19	- 86
Mycobacterium chimaera	H	NZ_CP015278	0.5522	0.0671	22	- 102
Mycobacterium gilvum	H	NC_008595	0.7763	0.0546	30	- 136
Mycobacterium intracellulare	H	NC_016946	0.7643	0.0607	27	- 122
Mycobacterium kansasii	H	NC_022663	0.5375	0.0913	16	- 74
Mycobacterium leprae	H	NZ_AP014567	0.5522	0.1037	14	- 66
Mycobacterium lepraemurium	Z	NZ_CP021238	0.5522	0.0645	23	- 106
Mycobacterium lepromatosis	H	NZ_JRPY01000026	0.5522	0.1063	14	- 64
Mycobacterium marinum	H	NC_010612	0.5522	0.0936	16	- 73
Mycobacterium parafortuitum	H	NZ_AP022598	0.5522	0.0560	27	- 122
Mycobacterium simiae	Z	NZ_AP022568	0.5522	0.0700	21	- 98
Mycobacterium smegmatis	H	NC_008596	0.5967	0.0546	28	- 127
Mycobacterium terrae	H	CP002329	0.6408	0.0668	23	- 106
Mycobacterium tuberculosis	H	NC_009565	0.5522	0.0796	19	- 86
Mycobacterium tuberculosis var. africanum	Z	NC_015758	0.5522	0.0791	19	- 86
Mycobacterium tuberculosis var. bovis	Z	NZ_CP039850	0.5522	0.0797	19	- 86
Mycobacterium tuberculosis var. microti	Z	NZ_LR882497	0.5522	0.0798	19	- 86
Mycobacterium ulcerans	H	NC_008611	0.5522	0.0867	17	- 79
Mycobacterium vulneris	Z	NZ_NCXM01000100	0.5522	0.0766	20	- 89
Mycobacteroides abscessus	H	NZ_AP018436	0.5522	0.0710	21	- 96
Mycobacteroides chelonae	H	NZ_CP007220	0.5522	0.0694	22	- 98
Mycolicibacterium fortuitum	H	NZ_CP011269	0.8021	0.0750	22	- 100
Mycolicibacterium phlei	H	NZ_CP014475	0.5026	0.0599	25	- 112
Mycoplasma agassizii	Z	NZ_FWXE01000039	0.3084	0.1180	11	- 52
Mycoplasma alligatoris	Z	NZ_ADNC01000033	0.3084	0.1572	9	- 39
Mycoplasma arthritidis	H	NC_011025	0.2449	0.1255	10	- 47
Mycoplasma bovigenitalium	Z	NZ_LR214970	0.3084	0.0667	20	- 92
Mycoplasma bovirhinis	Z	NZ_LR214972	0.3084	0.1258	11	- 49
Mycoplasma bovis	Z	NZ_CP005933	0.3084	0.1310	10	- 47
Mycoplasma bovoculi	Z	NZ_CP007154	0.3084	0.1073	13	- 57
Mycoplasma canis	Z	NZ_CP011368	0.3084	0.0775	17	- 79
Mycoplasma crocodyli	Z	NC_014014	0.3084	0.0889	15	- 69
Mycoplasma cynos	Z	NZ_LR214974	0.3084	0.0859	16	- 71
Mycoplasma edwardii	Z	NZ_LS991951	0.3084	0.0829	16	- 74
Mycoplasma elephantis	Z	NZ_JHXU01000001	0.3084	0.0511	26	- 120
Mycoplasma felis	Z	NZ_AP022325	0.3084	0.0965	14	- 63
Mycoplasma feriruminatoris	Z	NZ_KB199571	0.3084	0.1503	9	- 41
Mycoplasma fermentans	H	NC_014921	0.3084	0.1034	13	- 59
Mycoplasma gallinarum	Z	NZ_JHZE01000001	0.3084	0.0798	17	- 77
Mycoplasma gallisepticum	Z	NC_018406	0.3084	0.1018	13	- 60
Mycoplasma genitalium	Z	NC_000908	0.3084	0.1217	11	- 50
Mycoplasma haemocanis	Z	NC_016638	0.3084	0.0663	20	- 92
Mycoplasma haemofelis	Z	NC_014970	0.3084	0.0917	15	- 67
Mycoplasma hominis Type 1	H	NC_013511	0.2449	0.0758	17	- 78
Mycoplasma hyopneumoniae	Z	NC_021283	0.3084	0.0588	23	- 104
Mycoplasma hyorhinis	Z	NZ_KB911485	0.3084	0.1096	12	- 56
Mycoplasma hyosynoviae	Z	NZ_CP008748	0.3084	0.0751	18	- 81
Mycoplasma mycoides	Z	NZ_CP001668	0.3084	0.1316	10	- 46
Mycoplasma orale Type 1	H	NZ_LR214940	0.2449	0.0915	14	- 65
Mycoplasma ovipneumoniae	Z	NZ_AGRE01000010	0.3084	0.0770	17	- 79
Mycoplasma ovis	Z	NC_023062	0.3084	0.0711	19	- 86
Mycoplasma phocacerebrale	Z	NZ_CP033058	0.3084	0.1093	12	- 56
Mycoplasma pneumoniae	H	NZ_CP010546	0.3084	0.1673	8	- 37
Mycoplasma pulmonis	Z	NC_002771	0.3084	0.1085	12	- 56
Mycoplasma salivarium	H	NZ_LR214938	0.3084	0.1699	8	- 36
Mycoplasma spumans	Z	NZ_JHVF01000001	0.3084	0.0641	21	- 95

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<i>Mycoplasma synoviae</i>	Z	NZ_CP029258	0.3084	0.1037	13	- 59
<i>Mycoplasma zalophi</i>	H	NZ_JAHMH1010000001	0.3084	0.0764	18	- 80
<i>Neisseria canis</i>	Z	NZ_LR134313	0.7746	0.1091	15	- 68
<i>Neisseria gonorrhoeae</i>	H	NZ_LT591897	0.6928	0.1391	11	- 52
<i>Neisseria meningitidis</i>	H	NZ_LR134525	0.6928	0.0615	27	- 121
<i>Neorickettsia helminthoeca</i>	Z	NZ_CP007481	0.4899	0.0557	26	- 119
<i>Neorickettsia risticii</i>	Z	NC_013009	0.4899	0.0664	22	- 100
<i>Neorickettsia sennetsu</i>	Z	NC_007798	0.4899	0.0653	22	- 102
<i>Nocardia asteroides</i>	H	NZ_LR134352	1.4299	0.0578	33	- 151
<i>Nocardia brasiliensis</i>	H	NC_018681	1.4299	0.0712	27	- 123
<i>Nocardia cyriacigeorgica</i>	H	NC_016887	1.4299	0.0566	34	- 154
<i>Nocardia farcinica</i>	H	NZ_LN868938	1.4299	0.0554	35	- 158
<i>Nocardia nova</i>	H	NZ_CP006850	1.4299	0.0557	34	- 157
<i>Ochrobactrum anthropi</i>	H	NC_009667	0.6312	0.0907	17	- 78
<i>Orientia tsutsugamushi</i>	Z	NZ_LYMA01000001	0.4899	0.2261	6	- 29
<i>Ornithobacterium rhinotracheale (ORT)</i>	Z	NZ_AXDE01000001	1.0000	0.1151	15	- 69
<i>Pantoea agglomerans</i>	H	NZ_CP016889	0.8289	0.2089	8	- 36
<i>Pantoea ananatis</i>	H	NC_016816	1.7321	0.1840	11	- 50
<i>Pantoea dispersa</i>	H	NZ_AVSS01000001	1.7321	0.1600	13	- 57
<i>Pasteurella canis</i>	Z	NZ_WUMP01000001	0.6500	0.1608	10	- 44
<i>Pasteurella dagmatis</i>	Z	NZ_LT906448	0.6500	0.1419	11	- 50
<i>Pasteurella multocida</i>	H	NZ_CP008918	0.6500	0.1108	14	- 64
<i>Peptostreptococcus anaerobius</i>	Z	NZ_UGTB01000005	0.5477	0.1723	9	- 40
<i>Photobacterium damsela</i>	Z	NZ_CP035780	1.1483	0.2022	9	- 41
<i>Plesiomonas shigelloides</i>	Z	NZ_LT575468	1.1340	0.1690	11	- 49
<i>Porphyromonas gingivalis</i>	Z	NC_010729	0.6066	0.0703	22	- 99
<i>Prevotella intermedia</i>	Z	NZ_CP019300	1.1896	0.1160	16	- 72
<i>Prevotella melaninogenica</i>	Z	NC_014370	1.1896	0.1247	15	- 67
<i>Proteus mirabilis</i>	H	NC_008806	0.6301	0.2203	7	- 32
<i>Proteus vulgaris</i>	H	NZ_LR590468	0.6301	0.1962	8	- 36
<i>Providencia alcalifaciens</i>	Z	NZ_CP023536	0.8380	0.2955	6	- 26
<i>Providencia rettgeri</i>	Z	NZ_CP017671	0.8380	0.2382	7	- 32
<i>Providencia stuartii</i>	Z	NC_017731	0.8380	0.2199	8	- 34
<i>Pseudomonas aeruginosa</i>	H	NC_002516	0.8826	0.1112	15	- 69
<i>Pseudomonas fluorescens</i>	H	NC_007492	0.6885	0.1547	10	- 47
<i>Pseudomonas luteola</i>	H	NZ_JAKREJ010000010	0.9954	0.1963	9	- 40
<i>Pseudomonas putida</i>	H	NC_021505	0.5608	0.2070	7	- 33
<i>Raoultella orthinolytica</i>	Z	NZ_CP046672	0.7005	0.1426	11	- 51
<i>Raoultella planticola</i>	Z	NZ_CP026047	0.7005	0.1409	11	- 51
<i>Raoultella terrigena</i>	H	NZ_LANE01000008	0.7005	0.1522	10	- 48
<i>Rhodococcus hoagii</i>	Z	NZ_CP027793	1.0557	0.0400	44	- 201
<i>Rickettsia akari</i>	H	NC_009881	0.6000	0.1610	10	- 43
<i>Rickettsia felis</i>	Z	NZ_LANQ01000001	0.6000	0.1362	11	- 51
<i>Rickettsia helvetica</i>	Z	NZ_CM001467	0.6000	0.1440	11	- 48
<i>Rickettsia monacensis</i>	Z	NZ_LN794217	0.6000	0.1529	10	- 46
<i>Rickettsia prowazekii</i>	H	NC_008807	0.6000	0.1546	10	- 45
<i>Rickettsia rickettsii</i>	H	NC_010263	0.6000	0.1598	10	- 44
<i>Rickettsia typhi</i>	H	NC_006142	0.6000	0.1447	11	- 48
<i>Salmonella abortusovis</i>	Z	AUYQ02000001	1.1239	0.1367	13	- 60
<i>Salmonella bongori</i>	Z	NZ_CP053416	1.1239	0.1326	14	- 62
<i>Salmonella bovis moribificans</i>	Z	NZ_AZLC01000153	1.1239	0.1388	13	- 59
<i>Salmonella choleraesuis</i>	Z	NC_006905	1.1239	0.1428	13	- 57
<i>Salmonella enterica subsp anatum</i>	H	NC_003197	1.1239	0.1380	13	- 59
<i>Salmonella enterica subsp derby</i>	H	CP029486	1.1239	0.1377	13	- 60
<i>Salmonella enterica subsp. Arizonae</i>	Z	NC_010067	1.1239	0.1319	14	- 62
<i>Salmonella enterica subsp. Dublin</i>	Z	NC_011205	1.1239	0.1399	13	- 59
<i>Salmonella enterica subsp. Gallinarum</i>	Z	JSWQ01000001	1.1239	0.1320	14	- 62
<i>Salmonella enteritidis</i>	H	CP032851	1.1239	0.1366	13	- 60
<i>Salmonella infantis</i>	H	CP038507	1.1239	0.1343	13	- 61
<i>Salmonella Livingstone</i>	Z	NZ_JZWK01000001	1.1239	0.1465	12	- 56

Table 2: Database of Bacterial Human Pathogen Ultraviolet Susceptibility Predictions

Bacteria	Type	Genome	Mean Diameter	Predicted UV k	D90 Range	
		RefSeq/NCBI #	μm	m^2/J	J/m^2	
Salmonella pullorum	Z	NZ_CP012347	1.1239	0.1345	13	- 61
Salmonella typhi	H	NC_003198	1.1239	0.1430	13	- 57
Salmonella typhimurium	H	NC_003197	1.1239	0.1403	13	- 58
Serratia ficaria	H	NZ_LT906479	0.7181	0.1465	11	- 50
Serratia fonticola	H	NZ_CP011254	0.7181	0.2086	8	- 35
Serratia liquifaciens	H	NC_021741	0.7181	0.1751	9	- 42
Serratia marcescens	H	NZ_HG326223	0.7181	0.1352	12	- 54
Serratia odorifera	H	NZ_LR134117	0.7181	0.1655	10	- 44
Serratia plymuthica	H	NZ_LS483469	0.7181	0.1633	10	- 45
Serratia quinivorans	H	NZ_LR134494	0.7181	0.1897	8	- 38
Serratia rubidaea	H	NZ_CP014474	0.7181	0.1612	10	- 45
Shewanella algae	H	NZ_LN810009	0.5093	0.2916	5	- 23
Shewanella putrefaciens	H	NC_009438	0.5093	0.2544	6	- 26
Shigella boydii	H	NZ_CP026731	0.6301	0.1302	12	- 54
Shigella dysenteriae	H	NC_009344	0.6301	0.1270	12	- 55
Shigella flexneri	H	NZ_CP026788	0.6301	0.1436	11	- 49
Shigella sonnei	H	NC_007384	0.6301	0.1443	11	- 49
Staphylococcus aureus	H	NC_010079	0.7710	0.1272	13	- 58
Staphylococcus capitis	H	NZ_CP007601	0.7710	0.1107	15	- 67
Staphylococcus epidermis	H	NC_004461	0.8660	0.1030	16	- 74
Staphylococcus felis	Z	NZ_CP027770	0.7710	0.1126	14	- 66
Staphylococcus haemolyticus	H	NC_007168	0.7710	0.1345	12	- 55
Staphylococcus hyicus	Z	NZ_CP008747	0.7710	0.1085	15	- 68
Staphylococcus intermedius	Z	NZ_UHDP01000003	0.7710	0.1121	15	- 66
Staphylococcus lugdunensis	H	NC_013893	0.7710	0.1433	11	- 52
Staphylococcus pseudintermedius	Z	NC_014925	0.7710	0.0943	17	- 79
Staphylococcus saprophyticus	H	NZ_CP031196	0.7710	0.1544	11	- 48
Staphylococcus warneri	H	NZ_LR134269	0.7710	0.1277	13	- 58
Staphylococcus xylosus	H	NZ_CP008724	0.7710	0.1472	11	- 50
Stenotrophomonas maltophilia	H	NC_010943	0.6008	0.1197	13	- 58
Streptobacillus felis	Z	NZ_JABMKT010000100	0.4686	0.1015	14	- 65
Streptobacillus moniliformis	Z	NC_013515	0.4686	0.0947	15	- 70
Streptococcus agalactiae	H	NZ_CP026082	0.8485	0.1458	11	- 52
Streptococcus anginosus	H	NC_022239	0.8485	0.0948	18	- 80
Streptococcus canis	Z	NZ_BEWZ01000001	1.0198	0.1619	11	- 49
Streptococcus constellatus	H	NC_022238	0.8485	0.0974	17	- 78
Streptococcus dysgalactiae	H	NZ_AP023394	1.0000	0.1405	12	- 57
Streptococcus equi	Z	NZ_JAUA01000048	1.0198	0.2300	8	- 35
Streptococcus equinus	H	NZ_JNLO01000001	0.8485	0.1128	15	- 67
Streptococcus gordonii	H	NC_009785	0.8485	0.1012	17	- 75
Streptococcus infantarius	Z	NZ_UHFP01000002	1.0198	0.1154	15	- 69
Streptococcus iniae	Z	NZ_CP024843	1.0198	0.1478	12	- 54
Streptococcus intermedius	H	NC_022246	0.8485	0.1128	15	- 67
Streptococcus mitis	H	NZ_CP014326	0.8485	0.1310	13	- 58
Streptococcus mutans	H	NZ_LS483349	0.8485	0.1500	11	- 51
Streptococcus oralis	H	NZ_LR134336	0.8485	0.0981	17	- 77
Streptococcus pneumoniae	Z	NZ_UYIP01000002	1.0198	0.1035	17	- 77
Streptococcus porcinus	Z	NZ_LR594050	1.0198	0.1504	12	- 53
Streptococcus pseudoporcinus	Z	NZ_LR134341	1.0198	0.1506	12	- 53
Streptococcus pyogenes	H	NC_002737	1.0198	0.1609	11	- 50
Streptococcus salivarius	H	NZ_LR134274	0.8485	0.1301	13	- 58
Streptococcus sanguis	H	NZ_LS483385	0.8485	0.1643	10	- 46
Streptococcus suis	H	NZ_LS483418	0.8485	0.0978	17	- 78
Streptococcus viridans	H/C	NZ_UHHS01000002	1.0000	0.1149	15	- 69
Streptomyces coelicolor	N/S	NC_003888	1.0000	0.0775	23	- 102
Streptomyces griseus	H	NC_008802	0.7071	0.0787	20	- 92
Sutterella wadsworthensis	H	NZ_KE150480	1.0000	0.0812	22	- 98
Tatlockia micdadei	H	NZ_LN614830	0.7271	0.1707	9	- 43
Taylorella equigenitalis	Z	NZ_CP021246	0.7525	0.1521	11	- 48
Trueperella pyogenes	Z	NZ_CP007519	1.0198	0.0451	39	- 177

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Bacteria	Type	Genome	Mean Diameter	Predicted UV k	D90 Range
		RefSeq/NCBI #	μm	m^2/J	J/m^2
Ureaplasma diversum	Z	NZ_CP009770	0.1768	0.1708	7 - 33
Ureaplasma urealyticum	H	NC_011374	0.1768	0.1113	11 - 51
Veillonella parvula	H	NZ_LT906445	0.5608	0.1222	12 - 56
Vibrio alginolyticus	H	LOSN02000001	0.7720	0.1446	11 - 51
Vibrio anguillarum	H	NC_015633	0.5960	0.2171	7 - 32
Vibrio cholerae	H	NZ_AP014524	0.7612	0.2049	8 - 36
Vibrio fluvialis	H	NZ_CP014034	0.7720	0.1281	13 - 58
Vibrio furnisii	H	NZ_CP040990	0.7720	0.2518	6 - 29
Vibrio metschnikovii	H	NZ_CP046793	0.7720	0.1926	8 - 38
Vibrio ordalii	N/S	NZ_AJYS02000001	0.5960	0.2207	7 - 32
Vibrio parahaemolyticus	H	NZ_CP031781	0.7720	0.1806	9 - 41
Vibrio vulnificus	H	NZ_CP014636	0.7720	0.2131	8 - 35
Yersinia enterocolitica	H	NC_008800	0.7612	0.2183	7 - 34
Yersinia pestis	H	NC_003143	0.7263	0.1879	9 - 39
Yersinia pseudotuberculosis	Z	NZ_LR134373	0.7612	0.1855	9 - 40

TYPE CODE:

H Human pathogen (obligate)
Z Zoonotic, can infect humans
C Commensal human bacteria
S Surrogate or test bacteria
N Nonpathogenic for humans