

1 Appendix

Below are the complete lists of pathogen detected, regardless of detection threshold specified by the user.

Table 1: Status Description

Status	Status Symbol
Above both user-defined detection thresholds	++
Above only one of the user-defined detection thresholds	+
Below both user-defined detection thresholds	0
Did not detect any reads	-

1.1 Bacteria

Table 2: Bacteria Pathogen

#	Status	Pathogen	Species	Genus	Concentra	# of BP	# of unique frag	DUFP	Diseases
1	++	Pseudomonas aeruginosa	Pseudomonas aeruginosa	Pseudomonas	0.134561	942210600	2175567	0.668333	Infective Endocarditis; Malakoplakia; Sepsis; Folliculitis; Bacterial Meningitis; Infectious Conjunctivitis; Sinus Infection; Brain Abscess; Infectious Arthritis; Cellulitis; Epididymitis; Ear Infections; Infectious Myositis; Pseudomonas infection; Ecthyma Gangrenosum; Keratitis; Urinary Tract Infections; Osteomyelitis; Lung Abscess; Prostatitis;
2	++	Serratia marcescens	Serratia marcescens	Serratia	0.103524	724886250	557016	0.262685	Sepsis; Folliculitis; Bacterial Meningitis; Trichomycosis; Infectious Conjunctivitis; Serratia Infections; Infectious Arthritis; Cellulitis; Ecthyma Gangrenosum; Keratitis; Urinary Tract Infections; Osteomyelitis;

#	Status	Pathogen	Species	Genus	Concentration	# of BP	# of unique frag	DUFP	Diseases
3	++	Escherichia coli	Escherichia coli	Escherichia	0.096387	674913750	573776	0.313971	Bacteremia; Malakoplakia; Perinephric Abscess; E. coli Infection; Sepsis; Bacterial Endophthalmitis; Bacterial Meningitis; Sinus Infection; Brain Abscess; Infectious Arthritis; Cellulitis; Epididymitis; Ear Infections; Pelvic Inflammatory Disease; Bacterial Gastroenteritis; Infectious Myositis; Myocardial Abscess; Ecthyma Gangrenosum; Spontaneous Bacterial Peritonitis; Urinary Tract Infections; Prostatitis;
4	++	Enterococcus faecium	Enterococcus faecium	Enterococcus	0.092101	644903250	1021223	0.711993	Bacteremia; Sepsis; Enterococcal Infections;
5	++	Acinetobacter baumannii	Acinetobacter baumannii	Acinetobacter	0.082337	576530550	799834	0.465192	Sepsis; Folliculitis; Cellulitis; Acinetobacter Infections;
6	++	Klebsiella oxytoca	Klebsiella oxytoca	Klebsiella	0.077159	540273300	1366411	0.621191	Klebsiella Infections; Folliculitis;
7	++	Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella	0.067997	476123400	1191856	0.727199	Bacteremia; Klebsiella Infections; Sepsis; Sinus Infection; Brain Abscess; Epididymitis; Infectious Myositis; Ecthyma Gangrenosum; Spontaneous Bacterial Peritonitis; Keratitis; Urinary Tract Infections; Lung Abscess; Prostatitis;
8	++	Streptococcus agalactiae	Streptococcus agalactiae	Streptococcus	0.013009	91088100	470811	0.625638	Infective Endocarditis; Bacteremia; Sepsis; Bacterial Endophthalmitis; Bacterial Meningitis; Infectious Arthritis; Cellulitis; Pelvic Inflammatory Disease; Myocardial Abscess; Group B Strep Infections; Urinary Tract Infections; Impetigo and Ecthyma; Osteomyelitis;
9	++	Enterococcus faecalis	Enterococcus faecalis	Enterococcus	0.009789	68546400	1046870	0.610063	Bacteremia; Sepsis; Bacterial Endophthalmitis; Enterococcal Infections; Urinary Tract Infections; Prostatitis;
10	++	Streptococcus pyogenes	Streptococcus pyogenes	Streptococcus	0.009252	64785750	501565	0.606641	Infective Endocarditis; Bacteremia; Sepsis; Pharyngitis; Sinus Infection; Infectious Arthritis; Cellulitis; Group A Strep Infections; Ear Infections; Acute Glomerulonephritis; Toxic Shock Syndrome; Infectious Myositis; Myocardial Abscess; Ecthyma Gangrenosum; Impetigo and Ecthyma; Osteomyelitis; Lung Abscess;

#	Status	Pathogen	Species	Genus	Concentration	# of BP	# of unique frag	DUFP	Diseases
11	++	Klebsiella aerogenes	Klebsiella aerogenes	Klebsiella	0.006771	47409750	1204989	0.644736	Enterobacter infections; Prostatitis;
12	++	Staphylococcus aureus	Staphylococcus aureus	Staphylococcus	0.002350	16457100	781921	0.504444	Infective Endocarditis; Bacteremia; Staphylococcal Infections; Malakoplakia; Perinephric Abscess; Sepsis; Bacterial Endophthalmitis; Folliculitis; Bacterial Meningitis; Infectious Conjunctivitis; Sinus Infection; Brain Abscess; Infectious Arthritis; Cellulitis; Ear Infections; Acute Glomerulonephritis; Toxic Shock Syndrome; Bacterial Gastroenteritis; Infectious Myositis; Myocardial Abscess; Ecthyma Gangrenosum; Keratitis; Urinary Tract Infections; Impetigo and Ecthyma; Osteomyelitis; Lung Abscess; Prostatitis; Felon;
13	+	Serratia plymuthica	Serratia plymuthica	Serratia	0.001213	8491200	8540	0.001757	Sepsis; Serratia Infections;
14	++	Listeria monocytogenes	Listeria monocytogenes	Listeria	0.000833	5834250	749571	0.341687	Bacteremia; Sepsis; Bacterial Meningitis; Brain Abscess; Bacterial Gastroenteritis; Listeriosis;
15	++	Staphylococcus epidermidis	Staphylococcus epidermidis	Staphylococcus	0.000686	4806150	601808	0.387219	Infective Endocarditis; Bacteremia; Staphylococcal Infections; Sepsis; Bacterial Endophthalmitis; Bacterial Meningitis; Infectious Arthritis; Ecthyma Gangrenosum;
16	++	Enterobacter cloacae	Enterobacter cloacae	Enterobacter	0.000657	4600500	479460	0.383980	Bacteremia; Enterobacter infections; Sepsis; Brain Abscess; Cellulitis; Urinary Tract Infections;
17	+	Streptococcus pneumoniae	Streptococcus pneumoniae	Streptococcus	0.000249	1745550	14718	0.013930	Bacteremia; Perinephric Abscess; Sepsis; Bacterial Endophthalmitis; Acute Bronchitis; Bacterial Meningitis; Infectious Conjunctivitis; Sinus Infection; Brain Abscess; Infectious Arthritis; Cellulitis; Ear Infections; Acute Glomerulonephritis; Infectious Myositis; Myocardial Abscess; Spontaneous Bacterial Peritonitis; Keratitis; Pneumococcal Disease; Osteomyelitis; Lung Abscess;

#	Status	Pathogen	Species	Genus	Concentration	# of BP	# of unique frag	DUFP	Diseases
18	+	Acinetobacter calcoaceticus	Acinetobacter calcoaceticus	Acinetobacter	0.000117	819300	1320	0.000622	Acinetobacter Infections;
19	+	Streptococcus canis	Streptococcus canis	Streptococcus	0.000102	710850	1315	0.001727	Pharyngitis; Cellulitis; Myocardial Abscess; Impetigo and Ecthyma;
20	0	Streptococcus mitis	Streptococcus mitis	Streptococcus	0.000094	661050	4169	0.002324	Infective Endocarditis; Bacterial Endophthalmitis; Lung Abscess;
21	0	Serratia rubidaea	Serratia rubidaea	Serratia	0.000080	563400	854	0.000382	Serratia Infections;
22	0	Serratia odorifera	Serratia odorifera	Serratia	0.000043	304200	954	0.000565	Serratia Infections;
23	0	Serratia liquefaciens	Serratia liquefaciens	Serratia	0.000034	240000	425	0.000337	Sepsis; Serratia Infections;
24	0	Serratia fonticola	Serratia fonticola	Serratia	0.000033	229650	615	0.000151	Serratia Infections;
25	0	Streptococcus equi	Streptococcus equi	Streptococcus	0.000030	210450	319	0.000216	Pharyngitis; Cellulitis; Myocardial Abscess; Impetigo and Ecthyma;
26	0	Shigella dysenteriae	Shigella dysenteriae	Shigella	0.000029	199800	3240	0.015586	Shigellosis; Bacterial Gastroenteritis;
27	0	Salmonella bongori	Salmonella bongori	Salmonella	0.000025	178200	1180	0.000698	Salmonella Infection; Bacterial Gastroenteritis;
28	0	Cronobacter sakazakii	Cronobacter sakazakii	Cronobacter	0.000022	155700	331	0.000137	Sepsis; Brain Abscess; Cronobacter infection;
29	0	Aeromonas hydrophila	Aeromonas hydrophila	Aeromonas	0.000020	137850	2075	0.001448	Folliculitis; Infectious Arthritis; Cellulitis; Bacterial Gastroenteritis; Ecthyma Gangrenosum;
30	0	Morganella morganii	Morganella morganii	Morganella	0.000016	112350	177	0.000091	Sepsis; Bacterial Endophthalmitis; Bacterial Meningitis; Infectious Myositis; Ecthyma Gangrenosum; Urinary Tract Infections;
31	0	Shigella flexneri	Shigella flexneri	Shigella	0.000015	104850	2735	0.017659	Shigellosis; Bacterial Gastroenteritis;
32	0	Staphylococcus haemolyticus	Staphylococcus haemolyticus	Staphylococcus	0.000014	94950	60	0.000045	Staphylococcal Infections;
33	0	Shigella sonnei	Shigella sonnei	Shigella	0.000013	89250	1595	0.017237	Shigellosis; Bacterial Gastroenteritis;

#	Status	Pathogen	Species	Genus	Concentration	# of BP	# of unique frag	DUFP	Diseases
34	0	Citrobacter koseri	Citrobacter koseri	Citrobacter	0.000012	82350	288	0.000317	Perinephric Abscess; Folliculitis; Bacterial Meningitis; Brain Abscess; Cellulitis;
35	0	Mycobacterium tuberculosis	Mycobacterium tuberculosis	Mycobacterium	0.000012	83850	8934	0.005705	Tuberculosis; Perinephric Abscess; Bacterial Meningitis; Brain Abscess; Infectious Arthritis; Epididymitis; Osteomyelitis; Lung Abscess; Prostatitis;
36	0	Enterobacter cancerogenus	Enterobacter cancerogenus	Enterobacter	0.000010	71550	262	0.000194	Osteomyelitis;
37	0	Acinetobacter lwoffii	Acinetobacter lwoffii	Acinetobacter	0.000010	69900	60	0.000034	Acinetobacter Infections;
38	0	Cronobacter muytjensii	Cronobacter muytjensii	Cronobacter	0.000009	61500	247	0.000218	Cronobacter infection;
39	0	Yersinia enterocolitica	Yersinia enterocolitica	Yersinia	0.000008	57600	167	0.000058	Bacteremia; Pharyngitis; Yersiniosis; Bacterial Gastroenteritis; Infectious Myositis;
40	0	Streptococcus anginosus	Streptococcus anginosus	Streptococcus	0.000008	54750	194	0.000195	Infective Endocarditis; Brain Abscess;
41	0	Edwardsiella tarda	Edwardsiella tarda	Edwardsiella	0.000007	50850	351	0.000259	Bacterial Meningitis;
42	0	Shigella boydii	Shigella boydii	Shigella	0.000007	51450	729	0.012551	Shigellosis; Bacterial Gastroenteritis;
43	0	Yersinia pestis	Yersinia pestis	Yersinia	0.000007	46350	46	0.000302	Pharyngitis; Plague; Ecthyma Gangrenosum;
44	0	Bordetella pertussis	Bordetella pertussis	Bordetella	0.000006	45300	24	0.000060	Acute Bronchitis; Pertussis;
45	0	Aeromonas caviae	Aeromonas caviae	Aeromonas	0.000006	42750	927	0.000809	Bacterial Gastroenteritis;
46	0	Streptococcus sanguinis	Streptococcus sanguinis	Streptococcus	0.000005	34950	221	0.000087	Infective Endocarditis;
47	0	Salmonella enterica	Salmonella enterica	Salmonella	0.000005	34500	842	0.006532	Sepsis; Salmonella Infection; Bacterial Gastroenteritis;
48	0	Providencia rustigianii	Providencia rustigianii	Providencia	0.000004	27300	18	0.000010	Providencia Infections;
49	0	Providencia rettgeri	Providencia rettgeri	Providencia	0.000004	26100	49	0.000011	Providencia Infections;

#	Status	Pathogen	Species	Genus	Concentration	# of BP	# of unique frag	DUFP	Diseases
50	0	Proteus mirabilis	Proteus mirabilis	Proteus	0.000004	28650	137	0.000068	Perinephric Abscess; Folliculitis; Sinus Infection; Brain Abscess; Cellulitis; Proteus Infections; Keratitis; Urinary Tract Infections; Osteomyelitis; Prostatitis;
51	0	Streptococcus intermedius	Streptococcus intermedius	Streptococcus	0.000004	28950	477	0.000485	Infective Endocarditis; Sinus Infection; Brain Abscess;
52	0	Providencia heimbachae	Providencia heimbachae	Providencia	0.000004	30150	38	0.000020	Providencia Infections;
53	0	Cronobacter turicensis	Cronobacter turicensis	Cronobacter	0.000004	25950	126	0.000120	Cronobacter infection;
54	0	Streptococcus suis	Streptococcus suis	Streptococcus	0.000004	27300	77	0.000059	Bacterial Meningitis;
55	0	Streptococcus iniae	Streptococcus iniae	Streptococcus	0.000003	17700	55	0.000073	Cellulitis;
56	0	Yersinia pseudotuberculosis	Yersinia pseudotuberculosis	Yersinia	0.000003	22350	7	0.000012	Yersiniosis;
57	0	Providencia stuartii	Providencia stuartii	Providencia	0.000003	20100	104	0.000045	Sepsis; Providencia Infections;
58	0	Streptococcus salivarius	Streptococcus salivarius	Streptococcus	0.000003	18000	64	0.000047	Sepsis; Spontaneous Bacterial Peritonitis;
59	0	Aggregatibacter actinomycetemcomitans	Aggregatibacter actinomycetemcomitans	Aggregatibacter	0.000003	17850	37	0.000031	Infective Endocarditis; Brain Abscess; Periodontal Disease;
60	0	Cronobacter dublinensis	Cronobacter dublinensis	Cronobacter	0.000003	19050	184	0.000155	Cronobacter infection;
61	0	Cronobacter universalis	Cronobacter universalis	Cronobacter	0.000003	20400	125	0.000156	Cronobacter infection;
62	0	Streptococcus constellatus	Streptococcus constellatus	Streptococcus	0.000002	12000	242	0.001265	Brain Abscess;
63	0	Pseudomonas stutzeri	Pseudomonas stutzeri	Pseudomonas	0.000002	17100	60	0.000017	Ecthyma Gangrenosum;
64	0	Clostridium sporogenes	Clostridium sporogenes	Clostridium	0.000002	12750	258	0.000337	Gas Gangrene;
65	0	Plesiomonas shigelloides	Plesiomonas shigelloides	Plesiomonas	0.000002	13800	123	0.000062	Cellulitis; Bacterial Gastroenteritis;

#	Status	Pathogen	Species	Genus	Concentration	# of BP	# of unique frag	DUFP	Diseases
66	0	Citrobacter freundii	Citrobacter freundii	Citrobacter	0.000002	13200	128	0.000171	Infectious Myositis; Ecthyma Gangrenosum;
67	0	Streptococcus milleri	Streptococcus milleri	Streptococcus	0.000002	16350	37	0.000108	Sepsis; Brain Abscess;
68	0	Clostridium perfringens	Clostridium perfringens	Clostridium	0.000002	16200	7	0.000003	Clostridium perfringens food poisoning; Cellulitis; Gas Gangrene; Bacterial Gastroenteritis; Myocardial Abscess;
69	0	Streptococcus viridans	Streptococcus viridans	Streptococcus	0.000002	13500	65	0.000194	Infective Endocarditis; Bacteremia; Infectious Arthritis; Infectious Myositis; Bacterial vaginosis;
70	0	Cronobacter malonaticus	Cronobacter malonaticus	Cronobacter	0.000002	11850	109	0.000136	Cronobacter infection;
71	0	Borrelia crocidurae	Borrelia crocidurae	Borrelia	0.000001	4050	1	0.000003	Relapsing Fever;
72	0	Providencia alcalifaciens	Providencia alcalifaciens	Providencia	0.000001	3900	33	0.000023	Providencia Infections;
73	0	Clostridioides difficile	Clostridioides difficile	Clostridioides	0.000001	5250	16	0.000005	Bacterial Gastroenteritis; Clostridioides difficile Infection;
74	0	Clostridium botulinum	Clostridium botulinum	Clostridium	0.000001	4350	7	0.000002	Botulism;
75	0	Ureaplasma parvum	Ureaplasma parvum	Ureaplasma	0.000001	3600	3	0.000010	Infectious Urethritis;
76	0	Streptococcus sobrinus	Streptococcus sobrinus	Streptococcus	0.000001	6750	18	0.000018	Tooth Decay;
77	0	Finegoldia magna	Finegoldia magna	Finegoldia	0.000001	4800	1	0.000001	Mixed Anaerobic Infections; Peptostreptococcus Infection; Infectious Arthritis;
78	0	Aggregatibacter aphrophilus	Aggregatibacter aphrophilus	Aggregatibacter	0.000001	9150	12	0.000007	Infective Endocarditis; Brain Abscess;
79	0	Gardnerella vaginalis	Gardnerella vaginalis	Gardnerella	0.000001	5850	2	0.000001	Infectious Urethritis; Epididymitis; Pelvic Inflammatory Disease; Bacterial vaginosis;
80	0	Streptococcus equinus	Streptococcus equinus	Streptococcus	0.000001	7050	47	0.000093	Infective Endocarditis; Sepsis; Spontaneous Bacterial Peritonitis;
81	0	Stenotrophomonas maltophilia	Stenotrophomonas maltophilia	Stenotrophomonas	0.000001	7500	7	0.000004	Stenotrophomonas Maltophilia Infection; Ecthyma Gangrenosum;
82	0	Vibrio vulnificus	Vibrio vulnificus	Vibrio	0.000001	8700	40	0.000009	Cellulitis; Ecthyma Gangrenosum; Vibriosis;

#	Status	Pathogen	Species	Genus	Concentration	# of BP	# of unique frag	DUFP	Diseases
83	0	Vibrio cholerae	Vibrio cholerae	Vibrio	0.000001	8700	129	0.000081	Bacterial Gastroenteritis; Cholera;
84	0	Campylobacter jejuni	Campylobacter jejuni	Campylobacter	0.000001	5100	1	0.000001	Campylobacteriosis; Bacterial Gastroenteritis;
85	0	Campylobacter lari	Campylobacter lari	Campylobacter	0.000001	4200	4	0.000002	Campylobacteriosis; Bacterial Gastroenteritis;

1.2 Fungi

Table 3: Fungi Pathogen

#	Status	Pathogen	Species	Genus	Concentration	# of BP	# of unique frag	DUFP	Diseases
1	+	Candida albicans	Candida albicans	Candida	0.001134	7941000	6080	0.001207	Infective Endocarditis; Candidiasis; Perinephric Abscess; Sepsis; Fungal Eye Infections; Fungal Meningitis; Brain Abscess; Infectious Arthritis; Onychomycosis; Ear Infections; Acute Glomerulonephritis; Infectious Myositis; Ringworm; Ecthyma Gangrenosum; Fungal Pneumonia; Keratitis; Urinary Tract Infections; Prostatitis;
2	+	Candida dubliniensis	Candida dubliniensis	Candida	0.001005	7040100	5239	0.001029	Candidiasis;
3	+	Pichia kudriavzevii	Pichia kudriavzevii	Pichia	0.000155	1085700	279	0.000071	Candidiasis; Infectious Myositis;
4	0	[Candida] glabrata	[Candida] glabrata	Nakaseomyces	0.000065	457350	8720	0.001955	Candidiasis; Perinephric Abscess; Sepsis;
5	0	Aspergillus fumigatus	Aspergillus fumigatus	Aspergillus	0.000003	22650	19	0.000002	Aspergillosis; Fungal Eye Infections; Fungal Meningitis; Sinus Infection; Infectious Arthritis; Infectious Myositis; Ecthyma Gangrenosum; Fungal Pneumonia; Keratitis; Lung Abscess;
6	0	Cryptococcus neoformans	Cryptococcus neoformans	Cryptococcus	0.000002	11700	19	0.000001	Cryptococcosis; Fungal Meningitis; Sinus Infection; Brain Abscess; Infectious Arthritis; Cellulitis; Infectious Myositis; Fungal Pneumonia; Lung Abscess;

#	Status	Pathogen	Species	Genus	Concentra	# of BP	# of unique frag	DUFP	Diseases
7	0	Fusarium oxysporum	Fusarium oxysporum	Fusarium	0.000001	9750	23	0.000001	Fungal Eye Infections; Fungal Pneumonia; Keratitis;
8	0	Aspergillus oryzae	Aspergillus oryzae	Aspergillus	0.000001	6750	12	0.000001	Aspergillosis;

1.3 Protozoa

Table 4: Protozoa Pathogen

#	Status	Pathogen	Species	Genus	Concentra	# of BP	# of unique frag	DUFP	Diseases
1	0	Plasmodium falciparum	Plasmodium falciparum	Plasmodium	0.000029	200100	249	0.000049	Malaria;
2	0	Plasmodium knowlesi	Plasmodium knowlesi	Plasmodium	0.000027	188700	136	0.000017	Malaria;
3	0	Plasmodium malariae	Plasmodium malariae	Plasmodium	0.000026	180450	191	0.000016	Malaria;
4	0	Plasmodium vivax	Plasmodium vivax	Plasmodium	0.000010	73050	68	0.000007	Malaria;
5	0	Toxoplasma gondii	Toxoplasma gondii	Toxoplasma	0.000008	55500	169	0.000007	Brain Abscess; Toxoplasmosis;
6	0	Cryptosporidium parvum	Cryptosporidium parvum	Cryptosporidium	0.000003	20850	26	0.000008	Cryptosporidiosis;
7	0	Leishmania major	Leishmania major	Leishmania	0.000003	17700	12	0.000001	Leishmaniasis;
8	0	Trypanosoma brucei gambiense	Trypanosoma brucei	Trypanosoma	0.000002	13050	13	0.000007	African Trypanosomiasis;
9	0	Leishmania mexicana	Leishmania mexicana	Leishmania	0.000002	14250	8	0.000001	Leishmaniasis;
10	0	Leishmania donovani	Leishmania donovani	Leishmania	0.000001	5850	6	0.000004	Leishmaniasis;
11	0	Leishmania infantum	Leishmania infantum	Leishmania	0.000001	9150	2	0.000001	Leishmaniasis;
12	0	Leishmania braziliensis	Leishmania braziliensis	Leishmania	0.000001	10050	14	0.000003	Leishmaniasis;

#	Status	Pathogen	Species	Genus	Concentration	# of BP	# of unique frag	DUFP	Diseases
13	0	Leishmania panamensis	Leishmania panamensis	Leishmania	0.000001	4050	7	0.000002	Leishmaniasis;