

SUPPLEMENTARY MATERIAL

Table S1. Specificity analysis using RibB5 and RibB67 primer on 20 BCC, 18 Non-BCC, and 18 non-*Burkholderia* bacterial strains.

Bacteria	No	Strain name	Source	DNA concentration (ng/μL)	Primer	
					RibB67	RibB5
BCC	1	<i>B. cepacia</i> PC783	Onion	917.3	+	+
	2	<i>B. cepacia</i> AU24442	^b CF sputum	856.8	+	+
	3	<i>B. stabilis</i> AU23340	CF sputum	980	+	+
	4	<i>B. pyrrocinia</i> AU11057	CF sputum	173	+	+
	5	<i>B. ambifaria</i> HI2468	Pea, rhizosphere	372	+	+
	6	<i>B. anthina</i> HI2738	Soil rhizosphere	454.7	+	+
	7	<i>B. metallica</i> AU0553	CF sputum	66.2	+	+
	8	<i>B. metallica</i> AU16697	CF sputum	121	+	+
	9	<i>B. contaminans</i> HI3429	Sheep with mastitis, milk	246.6	+	+
	10	<i>B. contaminans</i> AU24637	CF lung	973.8	+	+
	11	<i>B. diffusa</i> AU1075	CF sputum	1481	+	+
	12	<i>B. arboris</i> ES0263a	Soil	726	+	+
	13	<i>B. arboris</i> AU22095	CF sputum	1220	+	+
	14	<i>B. lata</i> HI4002	Forest soil	1095.8	+	+
	15	<i>B. cenocepacia</i> AU1054	CF blood	469.3	+	+
	16	<i>B. cenocepacia</i> AU0222	CF patient	655.7	+	+
	17	<i>B. cenocepacia</i> AU19236	CF sputu	687.4	+	+
	18	<i>B. cenocepacia</i> HI2976	Environment, sink	344.1	+	+
	19	<i>B. cenocepacia</i> HI2485	CDC sample	657	+	+
	20	<i>B. cenocepacia</i> J2315	CF Sputum	473.8	+	+
Non-BCC	21	<i>B. glumae</i> AU6208	CF lung nodule	611.8	-	-
	22	<i>B. plantarii</i> AU9801	CF Sputum	834.4	-	-
	23	<i>Caballeronia zhejiangensis</i> AU10475	CF Blood	1382.8	-	-
	24	<i>Caballeronia zhejiangensis</i> AU12096	CF Blood	1657.9	-	-
	25	<i>B. concitans</i> AU12121	CF Sputum	635.3	-	+
	26	<i>B. humae</i> AU12450	Non-CF Lung	523.2	-	-
	27	<i>B. thailandensis</i> AU13555	Non CF infant Blood (w/olfs parkinson white)	541	-	+
	28	<i>B. tropica</i> AU15822	CF Throat	435.9	-	+
	29	<i>B. gladioli</i> AU16341	CF Sputum	99.1	-	+
	30	<i>B. fungorum</i> AU18377	Non CF Jaw Aspirate	782.2	-	+
	31	<i>B. tropica</i> AU19944	CF Sputum-Infant	859.6	-	+
	32	<i>B. gladioli</i> AU26454	CF Sputum	688.7	-	-
	33	<i>B. gladioli</i> AU29541	CF Sputum	599	-	+
	34	<i>B. gladioli</i> AU30473	CF Sputum	360.3	-	+
	35	<i>B. fungorum</i> AU35949	CF Endotracheal	830.4	-	-
	36	<i>B. thailandensis</i> AU36262	CF Sputum	527.8	-	+
	37	<i>B. plantarii</i> AU37486	CF Sputum	1402.6	-	+
	38	<i>B. oklahomensis</i> ES0634	Environmental	362.3	+	-
Non- <i>Burkholderia</i>	39	<i>Enterococcus faecalis</i> ATCC29212		646	-	-
	40	<i>Enterococcus durans</i> ATCC6056		245	-	-
	41	<i>Proteus mirabilis</i> ATCC7002		1734.6	-	-
	42	<i>Enterococcus faecium</i> ATCC35667		244.5	-	-
	43	<i>Bacillus subtilis</i> ATCC6051		1641.6	-	-
	44	<i>Citrobacter freundii</i> ATCC8090		2070.6	-	-
	45	<i>Pseudomonas aeruginosa</i> PAO1		1782	-	+
	46	<i>Enterococcus faecium</i> ATCC49624		3483.5	-	-
	47	<i>Yersinia enterocolitica subsp. enterocolitica</i> ATCC27729		1911	-	-
	48	<i>Shigella sonnei</i> ATCC9290		1878	-	-
	49	<i>Lactobacillus salivarius subsp. Salivarius</i> ATCC11741		1533	-	-
	50	<i>Enterobacter aerogenes</i> ATCC13048		1214.7	-	-
	51	<i>Klebsiella pneumoniae</i> ATCC13883		1590.5	-	-
	52	<i>Pseudomonas aeruginosa</i> ATCC27853		1805.7	-	+
	53	<i>Candida albicans</i> (Robin) Berkhout ATCC10231		53	-	-
	54	<i>Salmonella enterica</i>		1984.9	-	-
	55	<i>Paenibacillus lautus</i>		1479.9	-	-
	56	<i>Brevibacillus laterosporus</i>		1507.5	-	-

^a+: positive reaction, -: negative reaction

^bCF: cystic fibrosis

Table S2. Comparison of positive results for *B. cepacia* complex without PMAxx and with PMAxx in nuclease-free water.

	Inoculum (CFU/ml)							
	10		10 ²		10 ³		10 ⁴	
	without PMAxx	with PMAxx	without PMAxx	with PMAxx	without PMAxx	with PMAxx	without PMAxx	with PMAxx
1 <i>Burkholderia cepacia</i> PC783	2/3 ^a	2/3	2/3	2/3	2/3	0/3	3/3	3/3
2 <i>Burkholderia cepacia</i> AU24442	2/3	3/3	2/3	2/3	3/3	3/3	1/3	3/3
3 <i>Burkholderia stabilis</i> AU23340	2/3	3/3	2/3	2/3	2/3	1/3	1/3	3/3
4 <i>Burkholderia pyrrocinia</i> AU11057	3/3	0/3	3/3	0/3	3/3	1/3	2/3	2/3
5 <i>Burkholderia ambifaria</i> HI2468	2/3	3/3	2/3	3/3	3/3	2/3	2/3	2/3
6 <i>Burkholderia anthina</i> HI2738	3/3	3/3	3/3	3/3	0/3	2/3	2/3	1/3
7 <i>Burkholderia metallica</i> AU0553	3/3	3/3	2/3	3/3	3/3	2/3	3/3	1/3
8 <i>Burkholderia metallica</i> AU16697	3/3	3/3	3/3	2/3	3/3	2/3	3/3	2/3
9 <i>Burkholderia contaminans</i> HI3429	3/3	3/3	3/3	3/3	3/3	2/3	3/3	2/3
10 <i>Burkholderia contaminans</i> AU24637	2/3	0/3	2/3	0/3	3/3	3/3	3/3	2/3
11 <i>Burkholderia diffusa</i> AU1075	3/3	3/3	3/3	3/3	3/3	3/3	3/3	2/3
12 <i>Burkholderia arboris</i> ES0263 ^a	2/3	3/3	3/3	3/3	3/3	3/3	1/3	2/3
13 <i>Burkholderia arboris</i> AU22095	3/3	2/3	3/3	3/3	3/3	3/3	2/3	3/3
14 <i>Burkholderia lata</i> HI4002	2/3	1/3	2/3	3/3	3/3	3/3	3/3	2/3
15 <i>Burkholderia cenocepacia</i> AU1054	3/3	3/3	3/3	3/3	3/3	2/3	3/3	3/3
16 <i>Burkholderia cenocepacia</i> AU0222	1/3	0/3	3/3	1/3	3/3	0/3	3/3	0/3
17 <i>Burkholderia cenocepacia</i> AU19236	3/3	0/3	2/3	0/3	3/3	0/3	3/3	2/3
18 <i>Burkholderia cenocepacia</i> HI2976	3/3	0/3	2/3	0/3	3/3	0/3	3/3	1/3
19 <i>Burkholderia cenocepacia</i> HI2485	2/3	0/3	1/3	1/3	3/3	0/3	3/3	0/3
20 <i>Burkholderia cenocepacia</i> J2315	3/3	0/3	3/3	0/3	3/3	2/3	3/3	2/3
Total	50/60 (83.3%) <i>p</i> = 0.2556	35/60 (58.3%)	49/60 (81.7%) <i>p</i> = 0.3956	37/60 (61.7%)	55/60 (91.7%) <i>p</i> = 0.0942	34/60 (56.7%)	50/60 (83.3%) <i>p</i> = 0.3991	38/60 (63.3%)

^aNumber of positive/number of tests

Table S3. Comparison of positive results for *B. cepacia* complex without PMAxx and with PMAxx in CHX.

	Inoculum (CFU/ml)							
	10		10 ²		10 ³		10 ⁴	
	without PMAxx	with PMAxx	without PMAxx	with PMAxx	without PMAxx	with PMAxx	without PMAxx	with PMAxx
1 <i>Burkholderia cepacia</i> PC783	1/3	1/3	0/3	0/3	2/3	0/3	1/3	0/3
2 <i>Burkholderia cepacia</i> AU24442	0/3	0/3	2/3	0/3	2/3	0/3	3/3	0/3
3 <i>Burkholderia stabilis</i> AU23340	2/3	1/3	2/3	0/3	3/3	0/3	3/3	0/3
4 <i>Burkholderia pyrrocinia</i> AU11057	2/3	1/3	2/3	0/3	3/3	3/3	3/3	2/3
5 <i>Burkholderia ambifaria</i> HI2468	1/3	2/3	1/3	1/3	2/3	0/3	3/3	2/3
6 <i>Burkholderia anthina</i> HI2738	3/3	2/3	3/3	2/3	3/3	2/3	3/3	3/3
7 <i>Burkholderia metallica</i> AU0553	2/3	3/3	2/3	2/3	1/3	2/3	3/3	3/3
8 <i>Burkholderia metallica</i> AU16697	2/3	0/3	3/3	1/3	3/3	2/3	3/3	3/3
9 <i>Burkholderia contaminans</i> HI3429	1/3	0/3	2/3	1/3	3/3	2/3	3/3	2/3
10 <i>Burkholderia contaminans</i> AU24637	3/3	1/3	3/3	0/3	1/3	1/3	3/3	3/3
11 <i>Burkholderia diffusa</i> AU1075	0/3	1/3	2/3	2/3	3/3	0/3	2/3	0/3
12 <i>Burkholderia arboris</i> ES0263 ^a	1/3	0/3	1/3	0/3	2/3	1/3	2/3	3/3
13 <i>Burkholderia arboris</i> AU22095	1/3	1/3	2/3	0/3	3/3	0/3	3/3	2/3
14 <i>Burkholderia lata</i> HI4002	1/3	0/3	1/3	0/3	2/3	1/3	3/3	1/3
15 <i>Burkholderia cenocepacia</i> AU1054	3/3	2/3	2/3	1/3	3/3	1/3	3/3	3/3
16 <i>Burkholderia cenocepacia</i> AU0222	1/3	0/3	3/3	1/3	3/3	2/3	3/3	3/3
17 <i>Burkholderia cenocepacia</i> AU19236	2/3	1/3	2/3	0/3	3/3	0/3	3/3	3/3
18 <i>Burkholderia cenocepacia</i> HI2976	3/3	0/3	3/3	0/3	3/3	3/3	3/3	3/3
19 <i>Burkholderia cenocepacia</i> HI2485	3/3	0/3	3/3	0/3	1/3	2/3	2/3	3/3
20 <i>Burkholderia cenocepacia</i> J2315	3/3	0/3	2/3	0/3	3/3	1/3	2/3	3/3
Total	35/60* (58.3%) <i>p</i> = 0.0292	16/60 (26.7%)	41/60* (68.3%) <i>p</i> = 0.0004	11/60 (18.3%)	49/60* (81.7%) <i>p</i> = 0.0164	23/60 (38.3%)	54/60 (90.%) <i>p</i> = 0.4112	42/60 (70.0%)

^aNumber of positive/number of tests*There is a statistically significant difference between the without PMAxx and with PMAxx (*p* < 0.05).

Table S4. Comparison of positive results for *B. cepacia* complex without PMAxx and with PMAxx in BZK.

	Inoculum (CFU/ml)							
	10		10 ²		10 ³		10 ⁴	
	without PMAxx	with PMAxx	without PMAxx	with PMAxx	without PMAxx	with PMAxx	without PMAxx	with PMAxx
1 <i>Burkholderia cepacia</i> PC783	2/3	3/3	2/3	2/3	2/3	3/3	1/3	3/3
2 <i>Burkholderia cepacia</i> AU24442	3/3	3/3	3/3	3/3	2/3	2/3	3/3	2/3
3 <i>Burkholderia stabilis</i> AU23340	2/3	3/3	1/3	2/3	2/3	2/3	2/3	3/3
4 <i>Burkholderia pyrrocinia</i> AU11057	2/3	0/3	1/3	2/3	3/3	3/3	3/3	2/3
5 <i>Burkholderia ambifaria</i> HI2468	1/3	1/3	1/3	3/3	3/3	3/3	3/3	3/3
6 <i>Burkholderia anthina</i> HI2738	3/3	3/3	0/3	3/3	3/3	2/3	3/3	2/3
7 <i>Burkholderia metallica</i> AU0553	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3
8 <i>Burkholderia metallica</i> AU16697	3/3	2/3	3/3	3/3	3/3	3/3	3/3	3/3
9 <i>Burkholderia contaminans</i> HI3429	0/3	0/3	2/3	2/3	3/3	3/3	3/3	1/3
10 <i>Burkholderia contaminans</i> AU24637	0/3	2/3	1/3	3/3	3/3	3/3	3/3	2/3
11 <i>Burkholderia diffusa</i> AU1075	1/3	0/3	2/3	0/3	3/3	3/3	3/3	3/3
12 <i>Burkholderia arboris</i> ES0263 ^a	2/3	0/3	1/3	0/3	3/3	3/3	3/3	2/3
13 <i>Burkholderia arboris</i> AU22095	1/3	0/3	1/3	0/3	2/3	2/3	1/3	3/3
14 <i>Burkholderia lata</i> HI4002	0/3	0/3	0/3	2/3	1/3	3/3	2/3	2/3
15 <i>Burkholderia cenocepacia</i> AU1054	0/3	3/3	0/3	3/3	3/3	3/3	2/3	3/3
16 <i>Burkholderia cenocepacia</i> AU0222	2/3	1/3	1/3	1/3	1/3	3/3	3/3	3/3
17 <i>Burkholderia cenocepacia</i> AU19236	1/3	0/3	1/3	0/3	2/3	2/3	3/3	2/3
18 <i>Burkholderia cenocepacia</i> HI2976	0/3	0/3	1/3	1/3	1/3	3/3	0/3	3/3
19 <i>Burkholderia cenocepacia</i> HI2485	3/3	0/3	2/3	0/3	2/3	3/3	2/3	3/3
20 <i>Burkholderia cenocepacia</i> J2315	0/3	0/3	2/3	0/3	2/3	2/3	2/3	2/3
Total	29/60 (48.3%) <i>p</i> = 0.6222	24/60 (40.0%)	28/60 (46.7%) <i>p</i> = 0.6392	33/60 (55.0%)	47/60 (78.3%) <i>p</i> = 0.6855	54/60 (90.0%)	48/60 (80.0%) <i>p</i> = 0.8925	50/60 (83.3%)

^aNumber of positive/number of tests