

**Table S1: Sensitivity of iiPCR**

First Experiment	Sample	Positive Control	Negative (Water)	140 ng	14 ng	1.4 ng	0.14 ng	0.014 ng	0.0014 ng
	Signal	(+)	(-)	(+)	(-)	(-)	(-)	(-)	(-)
	R1	1.3355	0.988	1.3423	1.1158	1.0122	1.0315	1.0048	1.0203

Second Experiment	Sample	Positive Control	Negative (Water)	140 ng	14 ng	1.4 ng	0.14 ng	0.014 ng	0.0014 ng
	Signal	(+)	(-)	(+)	(-)	(-)	(-)	(-)	(-)
	R2	1.3756	1.0077	1.6521	1.1203	1.0916	1.0188	1.0466	1.0397

Third experiment	Sample	Positive Control	Negative (Water)	140 ng	14 ng	1.4 ng	0.14 ng	0.014 ng	0.0014 ng
	Signal	(+)	(-)	(+)	(-)	(-)	(-)	(-)	(-)
	R3	1.6301	1.0508	1.7285	1.1616	1.0639	1.0261	1.0507	1.0314

**Table S2: Specificity of both qPCR and iiPCR**

Organisms	qPCR	iiPCR	
		Reading	Interpretation
<i>Aeromonas hydrophila</i> ATCC7966	Not detected	1.0465	(-)
<i>Aeromonas caviae</i> ATCC15468	Not detected	1.1969	(-)
<i>Burkholderia cepacia</i> ATCC25416	Not detected	1.0736	(-)
<i>Burkholderia thailandensis</i> ATCC70038	Not detected	1.1346	(-)
<i>Escherichia coli</i> NCTC13476	Not detected	1.0354	(-)
<i>Pseudomonas putida</i> ATCC49128	Not detected	1.1586	(-)
<i>Pseudomonas aeruginosa</i> ATCC27853	Not detected	1.1827	(-)
<i>Pseudomonas fluorescens</i> ATCC13525	Not detected	1.0795	(-)
<i>Pseudomonas stutzeri</i> ATCC17588	Not detected	1.1183	(-)
<i>Klebsiella pneumoniae</i> NCTC13443	Not detected	1.0362	(-)

**Table S3: Sensitivity of qPCR**

Exp	DNA Concentration	Replicate 1	Replicate 2	Replicate 3	Average
1	140 ng	18.62	18.42	18.39	18.48
	14 ng	21.76	21.7	21.97	21.81
	1.4 ng	25.72	25.56	25.45	25.58
	0.14 ng	29.21	29.2	29.11	29.17
	0.014 ng	32.97	32.92	32.49	32.79
	0.0014 ng	36.56	36.59	36.01	36.39
	NTC	Not detected	Not detected	Not detected	-
2	140 ng	16.8	17.01	17.02	16.94
	14 ng	20.39	21.46	20.89	20.91
	1.4 ng	24.93	24.88	25.02	24.94
	0.14 ng	29.16	28.95	29.12	29.01
	0.014 ng	33.06	32.93	32.81	32.93
	0.0014 ng	36.85	36.9	36.67	36.81
	NTC	Not detected	Not detected	Not detected	-
3	140 ng	16.53	16.62	16.65	16.6
	14 ng	20.35	20.54	20.3	20.4
	1.4 ng	24.69	24.67	24.62	24.66
	0.14 ng	28.68	28.68	28.93	28.77
	0.014 ng	32.97	32.42	32.74	32.71
	0.0014 ng	36.17	36.43	36.95	36.52
	NTC	Not detected	36.91	Not detected	-

**Table S4: Screening results using qPCR and iiPCR**

No.	DNA Sample	DNA concentration (ng/uL)	qPCR Ct	POCKIT			
				Run 1		Repeated run	
				Reading	Interpretation	Reading	Interpretation
1	Sample 1	51.43	18.93	1.9258	(+)		
2	Sample 2	99.83	17.65	1.6649	(+)		
3	Sample 3	463.12	14.69	2.1227	(+)		
4	Sample 4	12.38	21.67	1.4625	(+)		
5	Sample 5	63.29	18.53	1.8725	(+)		
6	Sample 6	528.87	14.44	2.3061	(+)		
7	Sample 7	28.15	20.09	1.6013	(+)		
8	Sample 8	77.79	18.13	1.7079	(+)		
9	Sample 9	978.93	13.25	1.9092	(+)		
10	Sample 10	257.43	15.82	1.3542	(+)		
11	Sample 11	1557.85	12.36	1.7717	(+)		
12	Sample 12	529.34	14.44	1.7657	(+)		
13	Sample 13	206.97	16.24	1.8556	(+)		
14	Sample 14	511.79	14.5	2.0848	(+)		
15	Sample 15	459.35	14.71	1.8401	(+)		
16	Sample 16	1377.57	12.59	1.8103	(+)		
17	Sample 17	345.03	15.26	2.0142	(+)		
18	Sample 18	87.35	17.91	1.9794	(+)		
19	Sample 19	191.81	16.39	1.7607	(+)		
20	Sample 20	1744.53	12.14	2.1174	(+)		
21	Sample 21	374.84	15.1	2.3166	(+)		
22	Sample 22	791.48	13.66	1.8189	(+)		
23	Sample 23	763.66	13.73	1.7449	(+)		
24	Sample 24	387.1	15.04	2.0983	(+)		
25	Sample 25	132.68	17.1	1.8367	(+)		
26	Sample 26	284.29	15.63	1.6234	(+)		
27	Sample 27	39.25	20.3	1.676	(+)		
28	Sample 28	22.84	20.49	1.7285	(+)		
29	Sample 29	5560.81	9.91	2.2635	(+)		
30	Sample 30	549.9	14.36	1.7902	(+)		
31	Sample 31	166.38	16.66	1.7409	(+)		
32	Sample 32	15.1	21.29	1.7228	(+)		
33	Sample 33	37.38	19.54	1.8173	(+)		
34	Sample 34	354.77	15.21	1.9319	(+)		
35	Sample 35	198.21	16.33	2.1163	(+)		
36	Sample 36	35.38	19.65	1.5086	(+)		
37	Sample 37	178.32	16.53	2.1671	(+)		
38	Sample 38	37.39	19.54	1.6747	(+)		
39	Sample 40	307.85	15.48	2.1603	(+)		
40	Sample 41	294.54	15.57	2.1217	(+)		
41	Sample 42	624.02	14.12	2.3712	(+)		
42	Sample 43	768.1	13.72	2.7875	(+)		

No.	DNA Sample	DNA concentration (ng/uL)	qPCR Ct	POCKIT			
				Run 1		Repeated run	
				Reading	Interpretation	Reading	Interpretation
43	Sample 44	383.79	15.06	1.904	(+)		
44	Sample 45	5.72	23.16	1.6688	(+)		
45	Sample 46	980.62	14.23	2.1653	(+)		
46	Sample 47	180.53	16.51	1.9493	(+)		
47	Sample 48	95.76	17.73	1.7781	(+)		
48	Sample 49	621.35	14.13	1.9796	(+)		
49	Sample 50	241.62	15.95	2.0542	(+)		
50	Sample 51	188.54	16.42	1.8819	(+)		
51	Sample 52	139.06	17.01	1.7213	(+)		
52	Sample 54	97.21	17.7	1.7835	(+)		
53	Sample 55	537.22	14.41	1.8797	(+)		
54	Sample 56	154.34	16.81	1.7307	(+)		
55	Sample 57	2266.3	11.64	2.2382	(+)		
56	Sample 58	7.44	22.65	1.6744	(+)		
57	Sample 59	586.53	14.24	2.0138	(+)		
58	Sample 60	225.4	16.08	2.2473	(+)		
59	Sample 61	182.55	16.49	1.7981	(+)		
60	Sample 62	32.96	19.78	1.926	(+)		
61	Sample 63	38.93	19.46	2.1981	(+)		
62	Sample 64	52.9	18.87	2.2395	(+)		
63	Sample 65	83.04	18	2.1377	(+)		
64	Sample 68	57.56	18.71	2.3825	(+)		
65	Sample 69	9.55	22.17	2.2389	(+)		
66	Sample 70	30.13	19.96	1.5696	(+)		
67	Sample 71	33.18	19.77	1.8973	(+)		
68	Sample 72	33.96	19.72	2.0959	(+)		
69	Sample 73	159.45	16.75	2.0235	(+)		
70	Sample 74	30.43	19.94	1.7799	(+)		
71	Sample 75	31.41	19.88	1.8843	(+)		
72	Sample 76	21.66	20.59	2.1206	(+)		
73	Sample 77	303.37	15.51	2.0786	(+)		
74	Sample 78	10.65	21.96	1.2464	(?)	1.3259	(+)
75	Sample 79	1661.55	12.23	2.0802	(+)		
76	Sample 80	201.12	16.3	2.4792	(+)		
77	Sample 81	1141.7	12.96	2.2852	(+)		
78	Sample 82	318.03	15.42	2.4204	(+)		
79	Sample 83	796.69	13.65	1.4271	(+)		
80	Sample 84	1392.17	12.57	1.3731	(+)		
81	Sample 86	328.03	15.36	1.397	(+)		
82	Sample 87	676.7	13.96	1.3713	(+)		
83	Sample 88	704.63	13.89	1.5942	(+)		
84	Sample 89	0.0097	35.44	1.4461	(+)		
85	Sample 90	1139.22	12.96	2.1638	(+)		
86	Sample 91	10.92	21.91	2.1512	(+)		

No.	DNA Sample	DNA concentration (ng/uL)	qPCR Ct	POCKIT			
				Run 1		Repeated run	
			Reading	Interpretation	Reading	Interpretation	
87	Sample 92	219.09	17.05	1.9196	(+)		
88	Sample 93	2127.95	12.76	1.9845	(+)		
89	Sample 94	160.25	17.64	1.6003	(+)		
90	Sample 96	252.12	16.79	2.2921	(+)		
91	Sample 97	189.32	17.33	2.0566	(+)		
92	Sample 98	5.9	23.87	1.3995	(+)		
93	Sample 99	113.84	18.29	1.7749	(+)		
94	Sample 100	379.62	16.02	2.0418	(+)		
95	Sample 101	1165.03	13.9	2.204	(+)		
96	Sample 102	83.58	18.87	1.9668	(+)		
97	Sample 103	120.01	18.19	2.1561	(+)		
98	Sample 104	41.31	20.2	1.6242	(+)		
99	Sample 105	529.66	15.39	2.3061	(+)		
100	Sample 106	47.59	19.93	2.1752	(+)		
101	Sample 107	7.97	23.3	1.67	(+)		
102	Sample 108	10.44	22.79	1.372	(+)		
103	Sample 109	352.33	16.16	2.3125	(+)		
104	Sample 110	459.9	15.65	1.4939	(+)		
105	Sample 111	13.65	22.29	1.3872	(+)		
106	Sample 112	19.26	21.64	1.374	(+)		
107	Sample 114	12.18	22.5	1.261	(?)	1.1447	(-)
108	Sample 115	10.16	22.84	1.2716	(?)	1.1841	(-)
109	Sample 117	6.54	23.68	1.395	(+)		
110	Sample 118	11.31	22.64	1.4136	(+)		
111	Sample 119	2.36	25.6	1.5318	(+)		
112	Sample 121	13.12	22.36	1.3496	(+)		
113	Sample 122	20.43	21.53	1.7278	(+)		
114	Sample 123	7.05	23.53	1.768	(+)		
115	Sample 124	8.54	23.17	1.6229	(+)		
116	Sample 126	19.32	21.63	1.3567	(+)		
117	Sample 127	0.0118	35.59	1.3645	(+)		
118	Sample 129	0.0072	36.54	1.1718	(-)		
119	Sample 130	41.71	20.18	1.6814	(+)		
120	Sample 139	7.82	23.34	1.4622	(+)		
121	Sample 145	13.37	22.33	1.2655	(?)	1.8492	(+)