

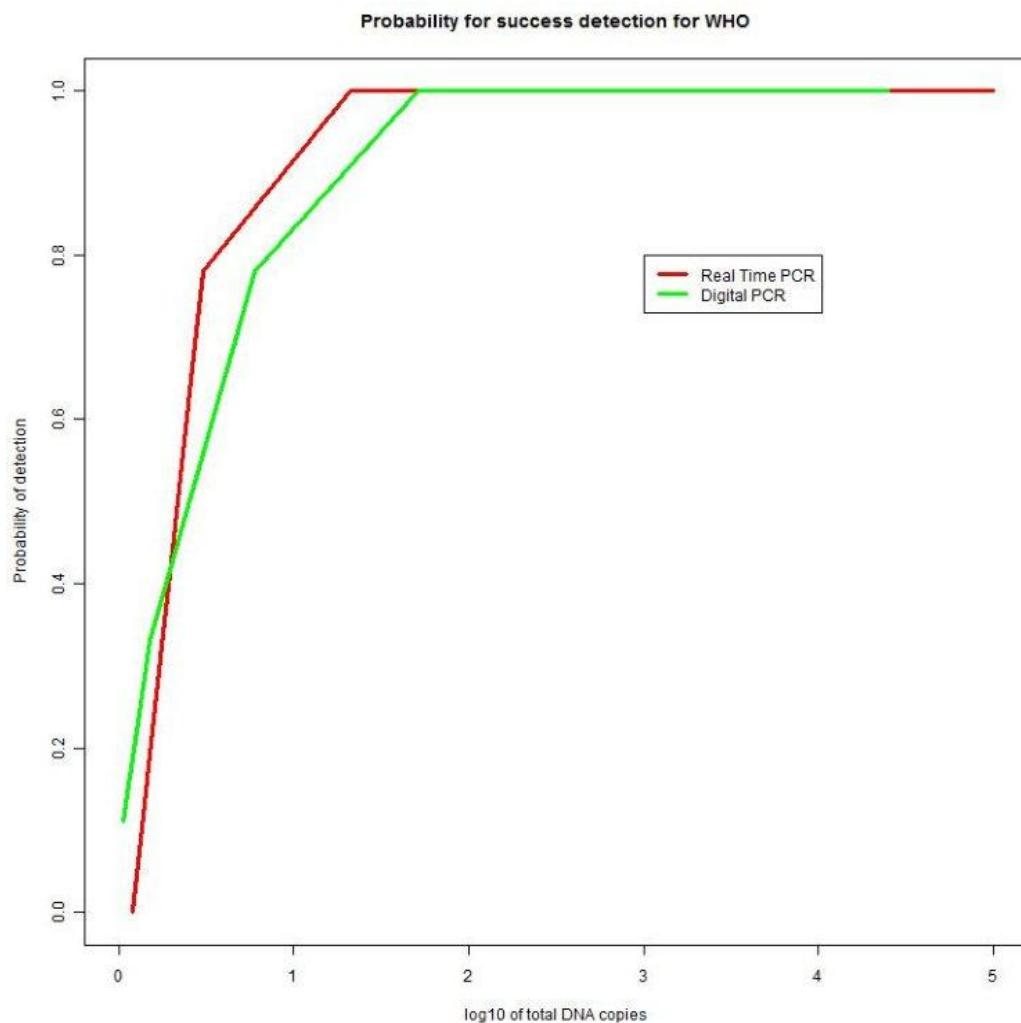
Supplemental Table S1. Regression Model Equations for Fitted Lines Shown in Figure 1.

Figure	Assay & Standard	Fitted Model Equation	Adjusted R-square
1A	ddPCR & Acrometrix	$Y=0.985*X+0.377$	0.986
1A	ddPCR & NIST	$Y=1.045*X+0.172$	0.994
1A	ddPCR & WHO	$Y=0.996*X+0.283$	0.997
1B	RTPCR & Acrometrix	$Y=0.931*X+0.553$	0.976
1B	RTPCR & NIST	$Y=0.959*X+0.846$	0.995
1B	RTPCR & WHO	$Y=1.044*X-0.311$	0.992

Supplemental Table S2. Regression Model Equations for Fitted Lines Shown in Figure 2.

Group	Equation	Adjusted R-square
Acrometrix	$Y=0.952*X+0.159$	0.995
NIST	$Y=1.037*X$	0.986
WHO	$Y=1.033*X$	0.959

A



B

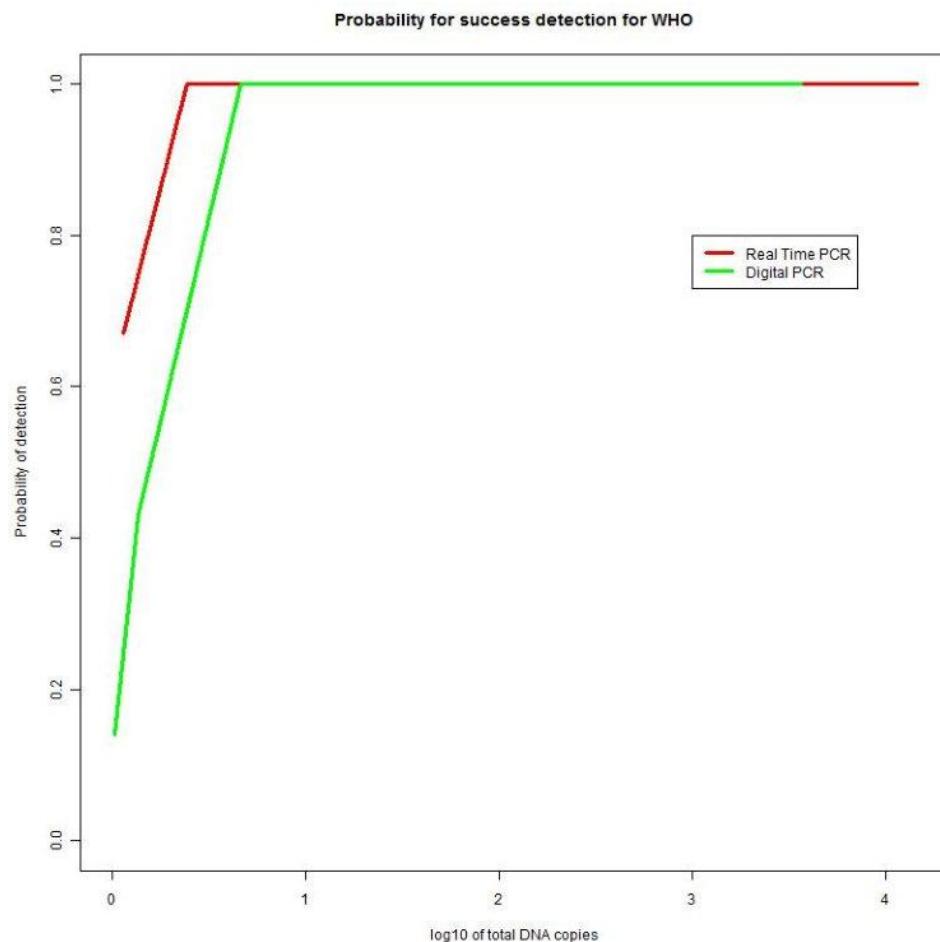


Figure S1A. Plot of the Observed Probability of Detection as a Function of the $\log(\text{total input copies} + 1)$ for the (A) NIST standard and (B) WHO standard. There was not enough data to perform a meaningful formal comparison with logistic regression analysis.

Supplement Table S3

Specimen ID	Mean(digitalPCR)	Std(digitalPCR)	%CV(digitalPCR)	Mean(RealTime)	Std(RealTime)	%CV(RealTime)
1	0.57	1.14	200.000	1.06	0.20	18.693
2	1.08	1.26	116.978	0.79	0.94	117.908
3	1.11	1.30	117.623	1.97	0.18	9.043
4	1.48	0.99	66.733	1.63	0.30	18.170
5	0.00	0.00	n/a	1.41	0.12	8.877
6	1.95	0.04	2.107	1.64	0.25	15.425
7	0.99	1.15	115.567	1.57	0.32	20.130
8	1.04	1.20	115.811	1.64	0.34	20.573
9	1.06	1.23	115.661	1.87	0.12	6.581
10	3.19	0.10	3.136	3.46	0.05	1.418
11	1.07	1.24	115.809	1.54	0.48	31.141
12	2.17	0.31	14.093	2.11	0.29	13.978
13	2.25	0.27	12.174	2.19	0.20	8.930
14	2.11	0.32	15.019	2.32	0.11	4.649
15	2.41	0.36	14.823	2.35	0.17	7.077
16	2.54	0.25	9.853	2.42	0.39	15.910
17	1.66	1.12	67.722	1.91	0.29	15.277
18	2.20	0.35	16.017	2.23	0.20	9.067
19	1.24	1.44	115.766	1.86	0.20	10.898
20	2.44	0.05	1.986	2.55	0.12	4.868
21	2.68	0.21	7.928	2.80	0.13	4.766
22	2.02	0.15	7.433	1.85	0.16	8.784
23	2.31	0.38	16.488	2.47	0.15	5.924
24	1.91	1.27	66.673	1.94	0.16	8.427
25	1.77	1.19	67.312	2.54	0.06	2.455
26	2.20	0.26	11.952	2.40	0.17	7.115

Specimen ID	Mean(digitalPCR)	Std(digitalPCR)	%CV(digitalPCR)	Mean(RealTime)	Std(RealTime)	%CV(RealTime)
27	2.70	0.11	4.117	2.75	0.12	4.505
28	2.03	1.36	67.240	2.71	0.07	2.600
29	2.63	0.21	7.939	2.73	0.12	4.475
30	1.26	1.46	116.373	2.18	0.20	9.393
31	3.11	0.11	3.429	3.18	0.15	4.848
32	3.09	0.03	0.829	3.20	0.06	2.011
33	2.93	0.18	6.169	3.14	0.13	4.253
34	2.83	0.12	4.130	3.22	0.11	3.361
35	3.07	0.26	8.613	3.43	0.12	3.624
36	3.35	0.12	3.711	3.70	0.07	1.811
37	3.47	0.08	2.231	3.61	0.07	1.909
38	3.73	0.05	1.319	3.80	0.10	2.605
39	3.47	0.07	1.955	3.56	0.09	2.588
40	3.52	0.13	3.753	3.72	0.14	3.813
41	3.58	0.15	4.081	3.80	0.13	3.449
42	4.24	0.02	0.437	4.29	0.03	0.699
43	4.26	0.02	0.467	4.18	0.07	1.646
44	4.04	0.10	2.556	4.32	0.04	0.958
45	3.95	0.26	6.691	4.61	0.04	0.926
46	4.68	0.02	0.497	4.54	0.09	1.888
47	4.36	0.07	1.662	4.53	0.04	0.943
48	4.47	0.02	0.359	4.65	0.08	1.662
49	5.18	0.05	1.016	5.34	0.13	2.462
50	5.45	0.06	1.169	5.43	0.05	0.860