

Supplementary Table S1. EQA test outcomes per sample per laboratory, including scores, method basis and RT-PCR target.

sample	4	5	6	7	8	11	1	2	3	9	10	12	Score		Method	PCR target
strain	Zika virus (Asian lineage) 5.54E+6 copies/0.2ml	Zika virus (Asian lineage) 3.62E+4 copies/0.2ml	Zika virus (Asian lineage) 3.62E+2 copies/0.2ml	Zika virus (African lineage) 1.2E+6 copies/0.2ml	Zika virus (African lineage) 8.3E+3 copies/0.2ml	Zika virus urine (Asian lineage) 2.5E+8 copies/0.2ml	Chikungunya virus (Asian lineage) 2.05E+5 copies/0.2ml	Yellow Fever virus 8.53E+6 copies/0.2ml	Dengue virus 1 5.84E+4 copies/0.2ml	negative control plasma -	negative control plasma -	negative control urine -	ZIKV pos.	ZIKV neg.		
lab/test N°																
1*	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	own design	NS5
2	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Lanciotti 2008	E
3	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Faye 2013	NS5
4	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	10	12	Pyke 2014	NS1
5	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Lanciotti 2008	E
6	correct	correct	false	correct	false	correct	correct	correct	correct	correct	correct	correct	8	12	Altona	prM
7	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	false	12	10	Altona	Unknown
8	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	false	12	10	Altona	Unknown
9	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Altona	Unknown
10	correct	correct	false	correct	correct	correct	correct	correct	false	correct	correct	correct	10	10	Lanciotti 2008	NS5
11	false	false	false	Inconclusive	false	correct	correct	correct	correct	correct	correct	correct	3	12	Fast track diagnostics	Unknown
12	correct	correct	false	correct	false	correct	correct	correct	correct	correct	correct	inconclusive	8	11	Genesig	Unknown
13	correct	correct	false	correct	inconclusive	correct	correct	correct	correct	correct	correct	correct	9	12	Lanciotti 2008	Unknown
14	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	inconclusive	10	11	Faye 2013	NS5
15	correct	correct	correct	correct	correct	correct	correct	correct	inconclusive	correct	correct	false	12	9	Altona	not mentioned
16	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	false	correct	12	10	own design	NS3
17	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	10	12	Lanciotti 2008	NS1
18	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Faye 2013	NS5
19	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	false	12	10	Faye 2013	NS5
20	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Corman 2016	E
21	correct	correct	false	correct	false	correct	correct	correct	correct	correct	correct	correct	8	12	Moureau 2007	NS5

sample	4	5	6	7	8	11	1	2	3	9	10	12	Score		Method	PCR target
strain	Zika virus (Asian lineage)	Zika virus (Asian lineage)	Zika virus (Asian lineage)	Zika virus (African lineage)	Zika virus (African lineage)	Zika virus urine (Asian lineage)	Chikungunya virus (Asian lineage)	Yellow Fever virus	Dengue virus 1	negative control plasma	negative control plasma	negative control urine	ZIKV pos.	ZIKV neg.		
lab/test N°	5.54E+6 copies/0.2ml	3.62E+4 copies/0.2ml	3.62E+2 copies/0.2ml	1.2E+6 copies/0.2ml	8.3E+3 copies/0.2ml	2.5E+8 copies/0.2ml	2.05E+5 copies/0.2ml	8.53E+6 copies/0.2ml	5.84E+4 copies/0.2ml	-	-	-				
22	correct	correct	inconclusive	correct	correct	correct	correct	correct	correct	correct	correct	correct	11	12	Lanciotti 2008	E
23	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	not done	6	10/10	Faye 2013	NS5
24A	correct	inconclusive	false	correct	inconclusive	correct	correct	correct	correct	correct	correct	correct	8	12	Lanciotti 2008	NS5
24B	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	correct	6	12	Liferiver	Unknown
25A	false	false	false	false	false	correct	correct	correct	correct	correct	correct	correct	2	12	Tappe 2014	NS3
25B	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	correct	6	12	Altona	Unknown
26A	correct	false	false	false	false	correct	correct	correct	correct	correct	correct	correct	4	12	Liferiver	Unknown
26B	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	correct	6	12	Trioplex	E
27A	correct	correct	correct	correct	correct	correct	inconclusive	correct	correct	correct	correct	correct	12	11	own design	E
27B	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	own design	NS3
28A	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	10	12	own design	3'UTR
28B	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Faye 2013	NS5
29A	correct	correct	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	10	12	Lanciotti 2008	E
29B	correct	correct	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	10	12	Altona	Unknown
30A	correct	correct	false	correct	false	correct	correct	correct	correct	correct	correct	correct	8	12	Faye 2013	NS5
30B	correct	correct	correct	correct	correct	correct	correct	correct	false	correct	correct	correct	12	10	Lanciotti 2008	E
31A	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	10	12	Lanciotti 2008	not mentioned
31B	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	10	12	Trioplex	not mentioned
32A	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Altona	Unknown
32B	correct	correct	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	10	12	own design	NS2B
33A	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	own design	NS3
33B	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Altona	Unknown
34A	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	false	12	10	Lanciotti 2008	E
34B	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	false	10	10	Sacace Biotechnologies	Unknown

sample	4	5	6	7	8	11	1	2	3	9	10	12	Score		Method	PCR target
strain	Zika virus (Asian lineage) 5.54E+6 copies/0.2ml	Zika virus (Asian lineage) 3.62E+4 copies/0.2ml	Zika virus (Asian lineage) 3.62E+2 copies/0.2ml	Zika virus (Asian lineage) 1.2E+6 copies/0.2ml	Zika virus (African lineage) 8.3E+3 copies/0.2ml	Zika virus urine (Asian lineage) 2.5E+8 copies/0.2ml	Chikungunya a virus (Asian lineage) 2.05E+5 copies/0.2ml	Yellow Fever virus 8.53E+6 copies/0.2ml	Dengue virus 1 5.84E+4 copies/0.2ml	negative control plasma -	negative control plasma -	negative control urine -	ZIKV pos.	ZIKV neg.		
lab/test N°																
35A	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	correct	6	12	Faye 2013	NS5
35B	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	correct	6	12	Altona	Unknown
36A	correct	correct	false	correct	false	correct	correct	correct	correct	correct	correct	correct	8	12	Lanciotti 2008	NS5
36B	correct	correct	false	correct	correct	correct	correct	correct	false	correct	correct	correct	10	10	Trioplex	Unknown
37A	correct	false	correct	inconclusive	correct	correct	correct	inconclusive	correct	correct	correct	correct	9	11	Altona	not mentioned
37B	correct	false	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	8	12	Balm 2012	not mentioned
38A	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	10	12	Corman 2016	E
38B	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Corman 2016	NS1
38C	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Altona	Unknown
39A	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Lanciotti 2008	E
39B	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Roche	NS2A
39C	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	10	12	Scaramozzi no 2001	NS5
40A	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Altona	Unknown
40B	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Faye 2013	NS5
40C	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	10	12	own design	NS5
41A	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	correct	6	12	Faye 2008	E
41B	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	correct	6	12	Faye 2013	NS5
41C	correct	correct	false	correct	correct	correct	correct	correct	false	correct	correct	correct	10	10	Trioplex	Unknown
42A	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	correct	6	12	Faye 2013	NS5
42B	correct	correct	false	correct	false	correct	correct	correct	correct	correct	correct	correct	8	12	own design	Unknown
42C	correct	correct	correct	correct	false	correct	correct	correct	correct	false	correct	correct	10	10	own design	3'UTR
42D	correct	correct	correct	correct	false	correct	correct	correct	correct	correct	false	correct	10	10	own design	NS1
43A	correct	false	false	correct	false	correct	correct	correct	correct	correct	correct	correct	6	12	Faye 2013	NS5
43B	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Corman 2016	NS1

sample	4	5	6	7	8	11	1	2	3	9	10	12	Score		Method	PCR target
strain	Zika virus (Asian lineage) 5.54E+6 copies/0.2ml	Zika virus (Asian lineage) 3.62E+4 copies/0.2ml	Zika virus (Asian lineage) 3.62E+2 copies/0.2ml	Zika virus (Asian lineage) 1.2E+6 copies/0.2ml	Zika virus (African lineage) 8.3E+3 copies/0.2ml	Zika virus urine (Asian lineage) 2.5E+8 copies/0.2ml	Chikungunya virus (Asian lineage) 2.05E+5 copies/0.2ml	Yellow Fever virus 8.53E+6 copies/0.2ml	Dengue virus 1 5.84E+4 copies/0.2ml	negative control plasma -	negative control plasma -	negative control urine -	ZIKV pos.	ZIKV neg.		
lab/test N°																
43C	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Corman 2016	E
43D	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Roche	NS1
44A	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	10	12	own design	NS5
44B	correct	correct	false	correct	false	correct	correct	correct	correct	correct	correct	correct	8	12	Lanciotti 2008	E
44C	correct	false	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	8	12	Patel 2013	NS5
44D	correct	false	false	correct	correct	correct	correct	correct	correct	correct	correct	correct	8	12	Scaramozzi no 2001	NS5
45	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Altona	Unknown
46	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	false	12	10	Lanciotti 2008	Unknown
47	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Altona	Unknown
48A	correct	correct	correct	correct	false	correct	correct	correct	correct	correct	correct	correct	10	12	Lanciotti 2008	E
48B	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Clonit	NS5
48C	correct	correct	false	correct	false	correct	correct	correct	correct	correct	correct	correct	8	12	Scaramozzi no 2001	NS5
49A	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Lanciotti 2008	E
49B	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Corman 2016	NS1
49C	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Altona	Unknown
50	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	correct	12	12	Faye 2013	NS5
Total	97.6% correct	78.8% correct	52.9% correct	94.1% correct	65.9% correct	100% correct	98.8% correct	98.8% correct	94.1% correct	98.8% correct	97.6% correct	89.3% correct (n=84)				

* Each laboratory was linked to an unique number to ensure anonymity in result evaluation. If a laboratory assessed more than one diagnostic test, letters (a, b, c, d) were used to code the different tests.