

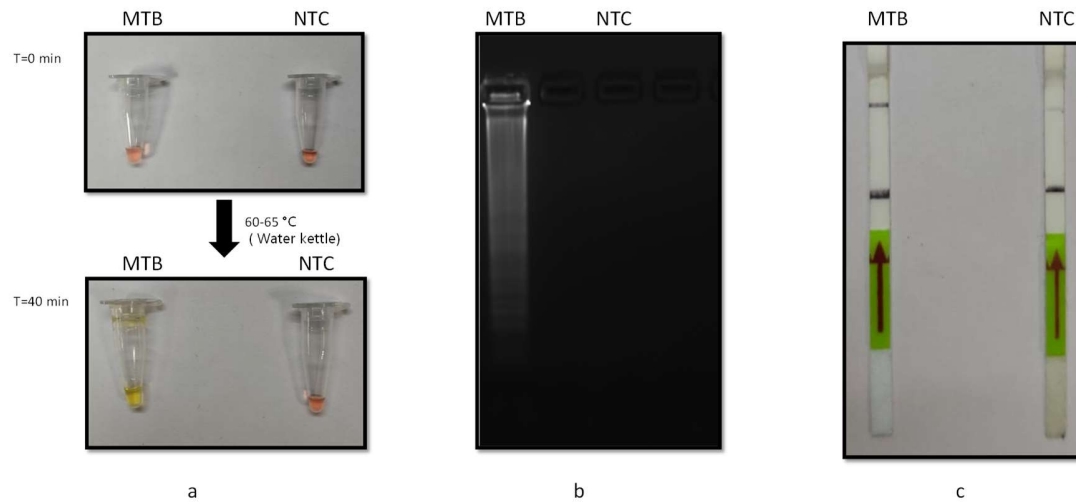


Figure S1. CLAP-TB assay standardized in a water kettle (a) RT-LAMP reaction of *IS6110* gene for MTB RNA and NTC visualized by colour change from pink to yellow after 40 min between 60-65°C in a water kettle (b) The agarose gel image of amplified product obtained from RT-LAMP reaction. (c) The lateral flow readout results of *IS6110* gene for MTB and NTC after 3 min.

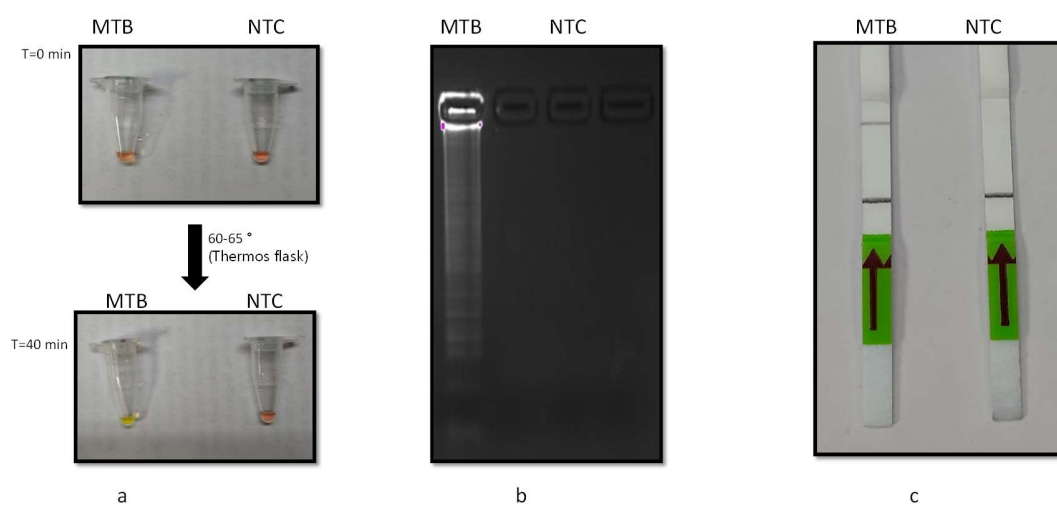


Figure S2. CLAP-TB assay standardized in a thermos flask (a) RT-LAMP reaction of *IS6110* gene for MTB RNA and NTC visualized by colour change from pink to yellow after 40 min between 60- 65°C in a thermos flask (b) The agarose gel image of amplified product obtained from RT-LAMP reaction. (c) The lateral flow readout results of *IS6110* gene for MTB and NTC after 3 min.

S. no.	Sample ID	Sample type	Zn Staining	AFB Culture	GeneXpert	CLAP-TB
1	NGS-07-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
2	NGS-02-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
3	NGS-28-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
4	NGS-29-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
5	NGS-41-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
6	NGS-18-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
7	NGS-34-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
8	NGS-45-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
9	MTB-138-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
10	MTB-185-SP(MDR)	Sputum	NEGATIVE	POSITIVE	POSITIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
11	MTB-184-SP(MDR)	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
12	MTB-182-SP(MDR)	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
13	MTB-148-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
14	MTB-122-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE

15	MTB-187-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	POSITIVE
16	MTB-116-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
17	MTB-137-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
18	MTB-132-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
19	MTB-119- PUS	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
20	MTB-130-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
21	MTB-164-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
22	MTB-143-SP(FLUID)	Sputum	Negative	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	POSITIVE
23	MTB-120-SP	Sputum	Negative	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
24	MTB-131-SP	Sputum	Negative	Negative	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
25	MTB-123-SP	Sputum	Negative	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
26	MTB-133-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
27	MTB-188-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
28	MTB-165-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
29	MTB-141-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE

		Serum	NA	NA	NA	POSITIVE
30	MTB-135-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
31	MTB-134-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
32	MTB-125-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
33	MTB-171-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
34	MTB-120-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
35	MTB-113-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
36	MTB-129-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
37	MTB-121-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
38	MTB-186-SP(MDR)	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
39	MTB-124-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
40	MTB-118-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
41	MTB-114-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
42	MTB-117-SP	Sputum	NEGATIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
43	MTB-112-SP	Sputum		POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE

44	MTB-52-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
45	MTB-32-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	Sample not found	Sample not Found	Sample not found	NA
		Serum	NA	NA	NA	POSITIVE
46	MTB-46-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
47	MTB-21-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
48	MTB-27-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
49	MTB-11-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
50	NGS-50-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
51	NGS-42-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
52	NGS-37-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
53	NGS-25-PUS	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
54	NGS24-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
55	NGS-30-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	Sample not found	Sample not found	Sample not found	NA
		Serum	NA	NA	NA	POSITIVE
56	NGS-20-PUS	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
57	NGS-16-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE

58	NGS-22-GA	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
59	HEALTHY CONTROL-1	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
60	HEALTHY CONTROL-2	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
61	HEALTHY CONTROL-3	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
62	HEALTHY CONTROL-4	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
63	HEALTHY CONTROL-5	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum			NEGATIVE	NEGATIVE
64	HEALTHY CONTROL-6	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
65	HEALTHY CONTROL-7	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
66	HEALTHY CONTROL-8	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
67	HEALTHY CONTROL-9	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
68	HEALTHY CONTROL-10	Sputum	NA	NA	NA	NA
		Urine	NEGATIVE	NEGATIVE	Not Done	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
69	NGS-03-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
70	NGS-04-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE

		Serum	NA	NA	NA	NEGATIVE
71	NGS-02-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
72	NGS-06-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum			NEGATIVE	NEGATIVE
73	NGS-09-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
74	MTB-128-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
75	MTB136-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
76	MTB-127-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
77	MTB-139-SP	Sputum	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	NEGATIVE
		Serum	NA	NA	NA	NEGATIVE
78	NGS-23	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
79	MTB-201	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NA	NA	NA	NA
		Serum	NA	NA	NA	NA
80	NGS-47-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
81	NGS-12-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE
82	NGS-38-SP	Sputum	POSITIVE	POSITIVE	POSITIVE	POSITIVE
		Urine	NEGATIVE	NEGATIVE	NOT DONE	POSITIVE
		Serum	NA	NA	NA	POSITIVE