

Supplementary Table 1: Overview of the results obtained on 79 ETAs using SQ-culture, the GeneXpert assay, Q-culture, enrichment-based culture, and in-house *nuc* gene-based qPCR.

0-4: negative (0), light (1), moderate (2) and heavy (3).

Sample ID	SQ-culture method		Extended gold standard [#]	GeneXpert assay		Q-culture		Enrichment-based culture	<i>Nuc</i> gene-based qPCR	
	<i>S. aureus</i> detected*	0-4		<i>S. aureus</i> detected	Ct value	<i>S. aureus</i> detected	CFU/ml	<i>S. aureus</i> detected	<i>S. aureus</i> detected	Ct value
1	-	0	-	-	39	-	0,00E+00	-	-	38
2	-	0	-	-	39	-	0,00E+00	-	-	38
3	-	0	-	-	39	-	0,00E+00	-	-	38
4	-	0	-	-	39	-	0,00E+00	-	-	38
5	-	0	-	-	39	-	0,00E+00	-	-	38
6	-	0	-	-	39	-	0,00E+00	-	-	38
7	-	0	-	-	39	-	0,00E+00	-	-	38
8	-	0	-	-	39	-	0,00E+00	-	-	38
9	-	0	-	-	39	-	0,00E+00	-	-	>38
10	-	0	-	-	39	-	0,00E+00	-	-	>38
11	-	0	-	-	39	-	0,00E+00	-	-	>38
12	-	0	-	-	39	-	0,00E+00	-	-	>38
13	-	0	-	-	39	-	0,00E+00	-	-	>38
14	-	0	-	-	39	-	0,00E+00	-	-	>38
15	-	0	-	-	39	-	0,00E+00	-	-	>38
16	-	0	-	-	39	-	0,00E+00	-	-	>38
17	-	0	-	-	39	-	0,00E+00	-	-	>38
18	-	0	-	-	36	-	0,00E+00	-	-	>38
19	-	0	-	-	39	-	0,00E+00	-	-	>38
20	-	0	-	-	38	-	0,00E+00	-	-	38
21	-	0	-	-	39	-	0,00E+00	-	+	25
22	-	0	-	-	39	-	0,00E+00	-	+	30
23	-	0	-	-	39	-	0,00E+00	-	+	31
24	-	0	-	-	39	-	0,00E+00	-	+	34
25	-	0	-	-	39	-	0,00E+00	-	+	35
26	-	0	-	-	39	-	0,00E+00	-	+	35
27	-	0	-	-	39	-	0,00E+00	-	+	35
28	-	0	-	-	39	-	0,00E+00	-	+	35
29	-	0	-	-	39	-	0,00E+00	-	+	36
30	-	0	-	-	39	-	0,00E+00	-	+	36
31	-	0	-	-	39	-	0,00E+00	-	+	36
32	-	0	-	-	39	-	0,00E+00	-	+	36
33	-	0	-	-	39	-	0,00E+00	-	+	37
34	-	0	-	-	39	-	0,00E+00	-	+	37
35	-	0	-	-	39	-	0,00E+00	-	+	37
36	-	0	-	-	39	-	0,00E+00	+	+	>38
37	-	0	-	-	39	+	8,48E+02	+	+	29
38	-	0	-	-	39	+	4,00E+01	+	+	35
39	-	0	+	+	29	+	3,00E+03	+	+	30
40	-	0	+	+	29	+	1,77E+05	+	+	32
41	+	1	+	+	31	+	5,60E+01	+	+	24
42	+	1	+	+	34	+	8,64E+02	+	+	27
43	+	3	+	+	19	+	8,56E+06	+	+	19
44	+	3	+	+	17	+	2,65E+08	+	+	21
45	+	3	+	+	16	+	7,80E+08	+	+	21
46	+	2	+	+	18	+	2,04E+07	+	+	24
47	+	3	+	+	14	+	4,39E+08	+	+	24
48	+	1	+	+	24	+	6,05E+04	+	+	25
49	+	3	+	+	22	+	1,59E+05	+	+	25
50	+	3	+	+	19	+	1,56E+06	+	+	25
51	+	1	+	+	21	+	5,12E+02	+	+	25
52	+	2	+	+	26	+	9,44E+02	+	+	26
53	+	2	+	+	23	+	1,92E+05	+	+	26
54	+	2	+	+	26	+	6,42E+03	+	+	27
55	+	1	+	+	25	+	7,38E+04	+	+	27
56	+	1	+	+	28	+	3,51E+05	+	+	27
57	+	1	+	+	24	+	2,40E+05	+	+	27
58	+	3	+	+	22	+	9,31E+06	+	+	27
59	+	1	+	+	30	+	9,60E+01	+	+	27
60	+	2	+	+	31	+	0,00E+00	+	+	28
61	+	2	+	+	25	+	5,71E+05	+	+	28
62	+	1	+	+	34	+	8,80E+01	+	+	28
63	+	2	+	+	26	+	0,00E+00	+	+	28
64	+	1	+	+	27	+	1,04E+02	+	+	29
65	+	2	+	+	25	+	3,16E+04	+	+	29
66	+	3	+	+	24	+	1,47E+05	+	+	30
67	+	3	+	+	30	+	2,59E+03	+	+	31
68	+	2	+	+	33	+	0,00E+00	+	+	31
69	+	1	+	+	30	+	8,00E+00	+	+	32
70	+	1	+	+	28	+	1,04E+02	+	+	32
71	+	1	+	+	30	+	2,06E+03	+	+	32
72	+	1	+	+	35	+	0,00E+00	+	+	33
73	+	1	+	+	31	+	3,99E+03	+	+	33
74	+	3	+	+	27	+	6,69E+03	+	+	35
75	+	1	+	+	30	+	4,88E+02	+	+	36
76	+	1	+	+	29	+	2,14E+04	+	+	36
77	+	1	+	+	32	+	4,80E+02	+	+	36
78	+	1	+	+	34	+	0,00E+00	+	+	36
79	+	2	+	+	27	+	8,32E+04	+	+	31

* +/-: Sample detected positive or negative for *S. aureus*

S. aureus detected by standard culture plus two samples that showed *S. aureus* presence by the other four methods but not by SQ-culture

0-4: Growth in four quadrants of SQ-culture. CFU: colony forming units