

**Table SI. Matrix-assisted laser desorption ionization-time of flight (MALDI TOF) analysis, 16S rRNA sequencing and single locus sequence typing (SLST) of the 44 clinical isolates**

Sample number	Micro-organism name	MALDI-TOF confidence value (%)	16S E value	SLST typing
1	<i>Cutibacterium acnes</i>	99.9		A1
2	<i>Cutibacterium acnes</i>	99.9		A1
4	<i>Cutibacterium acnes</i>	99.9		C1
6	<i>Cutibacterium acnes</i>	99.9		A1
7	<i>Cutibacterium acnes</i>	99.9		A1
10	<i>Cutibacterium acnes</i>	99.9		C1
11	<i>Cutibacterium acnes</i>	99.9		C1
13	<i>Cutibacterium acnes</i>	99.9		C2
14	<i>Cutibacterium acnes</i>	99.9		A1
18	<i>Cutibacterium acnes</i>	99.9		A1
19	<i>Cutibacterium acnes</i>	99.9		C1
21	<i>Cutibacterium acnes</i>	99.9		D1
22	<i>Cutibacterium acnes</i>	99.9		F4
23	<i>Cutibacterium acnes</i>	99.9		A1
27	<i>Cutibacterium acnes</i>	99.9		Unknown
28	<i>Cutibacterium acnes</i>	99.9		A1
30	<i>Cutibacterium acnes</i>	99.9		A1
31	<i>Cutibacterium acnes</i>	99.9		A1
32	<i>Cutibacterium acnes</i>	99.9		Unknown
33	<i>Cutibacterium acnes</i>	99.9		A1
35	<i>Cutibacterium acnes</i>	99.9		H1
36	<i>Cutibacterium acnes</i>	99.9		A1
37	<i>Cutibacterium acnes</i>	99.9		D1
40	<i>Cutibacterium acnes</i>	99.9		Unknown
41	<i>Cutibacterium acnes</i>	99.9		Unknown
43	<i>Cutibacterium acnes</i>	99.9		H1
5	<i>Cutibacterium acnes</i>	Not detected	0	A1
8	<i>Cutibacterium acnes</i>	Not detected	1.5E-157	A1
9	<i>Cutibacterium acnes</i>	Not detected	2E-155	A1
15	<i>Cutibacterium acnes</i>	Not detected	5E-156	Unknown
24	<i>Cutibacterium acnes</i>	Not detected	2E-155	A1
44	<i>Cutibacterium acnes</i>	Not detected	5E-156	K1
47	<i>Cutibacterium acnes</i>	Not detected	4.50E-157	F4
48	<i>Cutibacterium acnes</i>	Not detected	4.53E-157	A1
49	<i>Cutibacterium acnes</i>	Not detected	2.05E-155	Unknown
25	<i>Cutibacterium acnes</i>	Not detected	0	F4
3	<i>Cutibacterium avidum</i>	99.9		
20	<i>Cutibacterium avidum</i>	99.9		
34	<i>Cutibacterium avidum</i>	99.9		
42	<i>Cutibacterium avidum</i>	99.9		
45	<i>Cutibacterium avidum</i>	99.9		
46	<i>Cutibacterium avidum</i>	99.9		
16	<i>Cutibacterium avidum</i>	Not detected	1.5E-152	
39	<i>Cutibacterium granulosum</i>	Not detected	3E-154	