**Table S1**. Total bacterial count in the antecubital fossa area from 30 healthy subjects.

|  |  |  |  |
| --- | --- | --- | --- |
| **Volunteer** | **Age (years)** | **Gender** | **Total bacterial count (LogCFU/100 cm2)** |
| 1 | 76 | M | 2.46 |
| 2 | 37 | F | 5.77 |
| 3 | 32 | M | 3.60 |
| 4 | 24 | M | 6.14 |
| 5 | 26 | F | 5.03 |
| 6 | 31 | F | 3.99 |
| 7 | 28 | F | 3.00 |
| 8 | 31 | F | 3.23 |
| 9 | 24 | F | 4.70 |
| 10 | 29 | F | 3.63 |
| 11 | 63 | M | 3.22 |
| 12 | 24 | M | 3.03 |
| 13 | 34 | M | 3.15 |
| 14 | 64 | M | 5.06 |
| 15 | 32 | F | 2.28 |
| 16 | 35 | F | 5.07 |
| 17 | 28 | F | 3.23 |
| 18 | 26 | M | 3.38 |
| 19 | 30 | F | 4.07 |
| 20 | 30 | M | 3.36 |
| 21 | 26 | F | 3.49 |
| 22 | 24 | F | 5.39 |
| 23 | 39 | F | 5.33 |
| 24 | 26 | M | 3.20 |
| 25 | 31 | M | 4.17 |
| 26 | 29 | M | 3.51 |
| 27 | 22 | M | 3.01 |
| 28 | 29 | M | 3.79 |
| 29 | 58 | M | 3.47 |
| 30 | 58 | F | 2.49 |

**CFU**, colony forming unit; **F**, female; **M**, male

**Table S3.** Primer sets for detection of *sadA* gene in *Staphylococcus* spp.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Primer set (5’→3’)** | **Length (bp)** | **Species** | **Strain** | **NCBI accession number** |
| **F,** CKGATAAGATATGTGAWAGTCC  **R,** GTMTTTGTATCTGGYGGTTCWA | 394 | *S. aureus* | MS4 | CP009828.1 |
| M013 | CP003166.2 |
| RIVM6519 | CP015173.1 |
| SA957 | CP003603.1 |
| *S. capitis* | Sc1516941 | CP145206.1 |
| *S. caprae* | JMUB145 | AP018585.1 |
| *S. carnosus* | LTH 3730 | CP016760.1 |
| TM300 | AM295250.1 |
| *S. condimenti* | StO 2014-01 | CP018776.1 |
| DSM 11674 | CP015114.1 |
| *S. epidermidis* | O47 | CP040883.1 |
| SEI | CP009046.1 |
| PM221 | HG813242.1 |
| *S. haemolyticus* | JCSC1435 | AP006716.1 |
| *S. hominis* | S00278 | NZ\_JACHLT010000017 |
| SDD3 | VJMX01000002.1 |
| *S. lugdunensis* | RMLUG4 | CP084440.1 |
| *S. petrasii* subsp. *pragensis* | CCM 8529 | SRPJ01000003.1 |
| *S. saprophyticus* | sap-wu-085 | JARZPO010000009.1 |
| **F,** GCGTTACGTTGATACAGAGA  **R,** CCAGCACGATATGTATTTAGC | 363 | *S. coagulans* | M611545/16/1 | JABTCP010000002.1 |
| *S. schleiferi* | TSCC54 | AP014944.1 |
| 1360-13 | CP009470.1 |
| NCTC12218 | LR962863.1 |
| **F,** GGTGTTTTTGTTTCAGGCGGTTC  **R,** CCATAAGCGCCATCTGCATGGA | 377 | *S. lutrae* | ATCC 700373 | CP020773.1 |

**Table S7.** Sequences of the oligonucleotides used in construction of *S. epidermidis* 102 mutant lacking *tdc* gene (102Δ*tdc*) and expression vectors.

|  |  |
| --- | --- |
| **Primers** | **Sequence 5’→3’** |
| KOS1F | CGCGCAGATCTGTCGACGATAATTAAAACCCCTTTCTCTTTTTTC |
| KOS1R | GAGATGGATTTTTACCTCCAAAAGGTACAAACACTACTGAGC |
| KOS2F | CAGTAGTGTTTGTACCTTTTGGAGGTAAAAATCCATCTC |
| KOS2R | TGCAGGCATGCAAGCTTGATCTAAAATTAATTGTTGTTTTAATGAGG |
| KOS3F | GCGTTACGGGTATTAGCTTT |
| KOS3R | GGGGTGTTCATTTCCCTTAT |
| 32S | GGTGGTGGTGCTCGAGTGCTTATTTTACGTCGTAAATTTGTTC |
| 33S | CGCGGCAGCCATATGGCTAGCATGAAAAACGAAAAATTAGCAAAAG |
| 42S | GCAGGAATATCGGCACCTTT |
| 44S | GACACATCGTTGCTGATGGT |
| 78S | GGTGGTGGTGCTCGAGTGCTTATTTAATTTTATAAATTCTTTCTAATTTATCTTG |
| 79S | CGCGGCAGCCATATGGCTAGCATGAAAAGAAAAGACGATATCAATTTG |
| 81S | GAAACAGCTGTAGCACCAGC |
| 82S | GCATTATTCTTGGTTAAAAGC |