

Excluded primers

nuoL1_Amplicon:245-727_Foward:225-244

5'TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGACCGAAACATTACCGCGAAC 3'

nuoL1_Amplicon:245-727_Reverse:747-728

5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGATAGCCGCGTTTGTCTCAAT 3'

nuoL1_Amplicon:245-727_Reverse:744-728 (shorter version)

5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGATAGCCGCGTTTGTCTC 3'

nuoL1_Amplicon:245-727_Foward:225-244 (including generic bases)

5'TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGACCYAAACYTTACCGCGAAC 3'

nuoL1_Amplicon:245-727_Reverse:747-728 (including generic bases)

5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGATAGCCGCGTTTWGCTCAAT 3'

nuoL2_Amplicon:714-1138_Foward:693-713

5'TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCGTACGTCCTTAACACTTAC 3'

nuoL2_Amplicon:714-1138_Reverse:1158-1139

5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGGTTCTATGTTCACTACTGG 3'

wecC1_Amplicon:287-762_Foward:267-286

5'TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGGCCAGTACACTGTAAAGCG 3'

wecC1_Amplicon:287-762_Reverse:782_763

5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGTCGATTGTACTGGCGG 3'

wecC1_Amplicon:287-762_Reverse:782_763 (including generic bases)

5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGTCGATTGTACTGGMGG 3'

wecC2_Amplicon:287-772_Foward:267-286

5'TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGGCCAGTACACTGTAAAGCG 3'

wecC2_Amplicon:287-772_Reverse:792-773

5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCATGCCTAGTTGTCGATTTG 3'

group_998_Amplicon:255-774_Foward:235-254

5'TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCCACCAGCACTTTACCTCT 3'

group_998_Amplicon:255-774_Reverse:794-775

5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGCCCGTTAAAAAACTGAAC 3'

group_998_Amplicon:255-774_Reverse:794-775 (including generic bases)

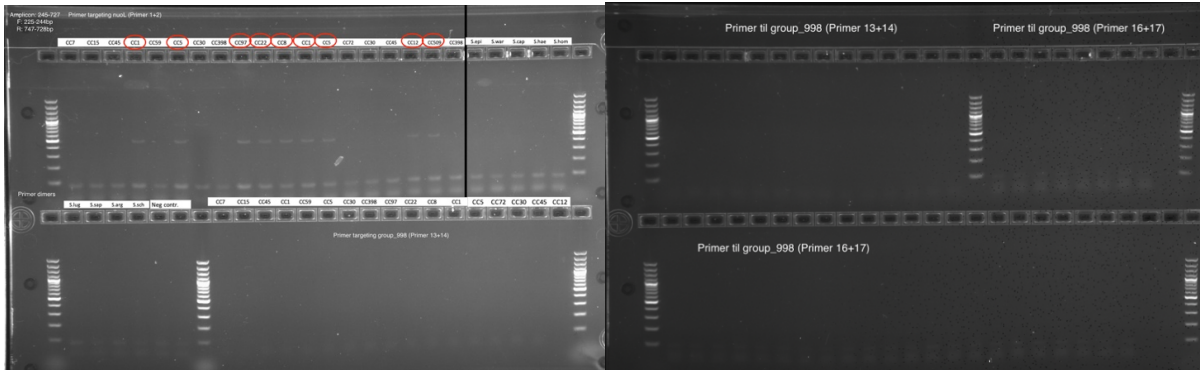
5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGCCYGTAAAAAACTGAAC 3'

group_Amplicon:998_576-977_Foward:556-575

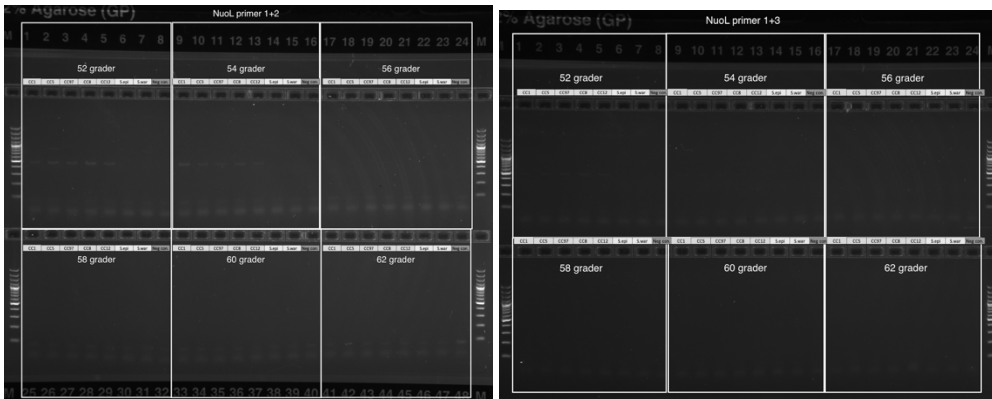
5'TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGTACAAACGTAAACTTGGCAC 3'

group_998_Amplicon:576-977_Reverse:997-978

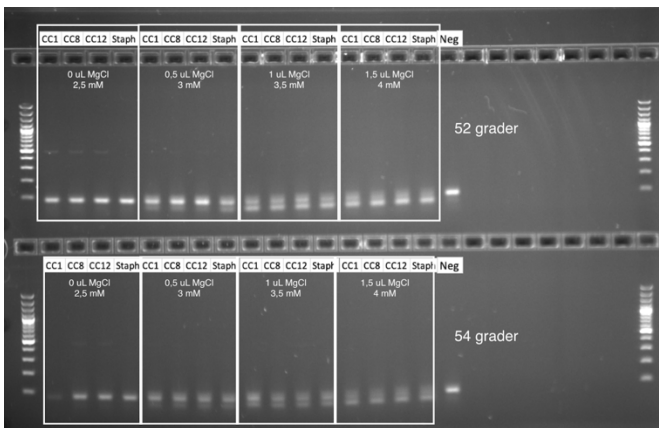
5'GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGTCCTAATGGTTTAAGTCCT 3'



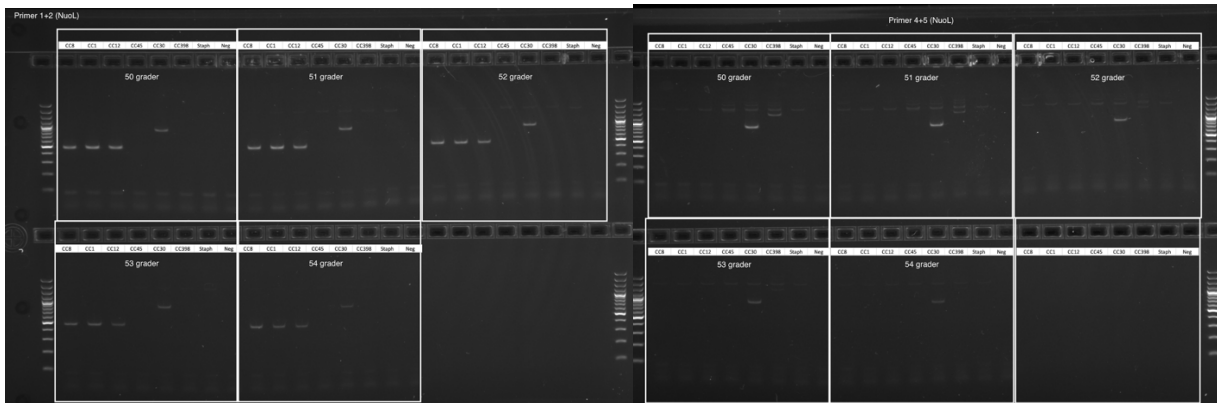
Test of three random primer pairs (nuoL primer, two g998 primer pairs). Test on a selection of CC isolates. Abbreviation: CC: clonal complex. *Epi*: *S. epidermidis*; *War*=*S. warneri*; *Hae*:*S. haemolyticus*; *Hom*: *S. hominis*; *Lug*: *S. lugdunensis*; *Sap*: *S. saprophyticus*; *Arg*: *S. argenteus*; *Ach*: *S. schweitzeri*.



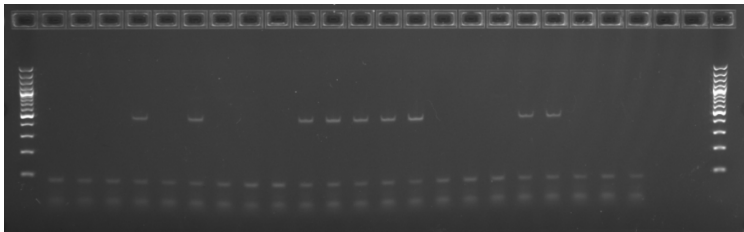
Temperature gradient test (nuoL1 primers). Test on a selection of CC isolates. Abbreviation: CC: clonal complex. *Epi*: *S. epidermidis*; *War*=*S. warneri*.



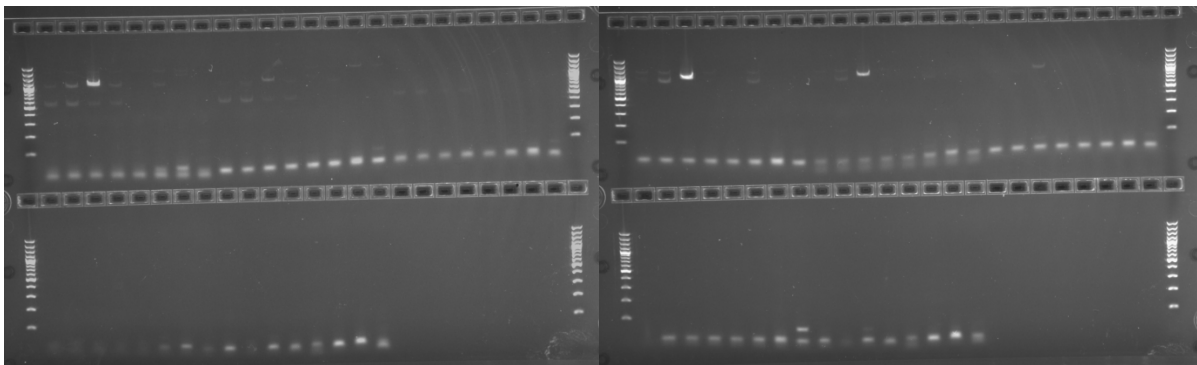
Temperature gradient + change of $MgCl_2^{2+}$ concentration (nuoL1 primers). Test of nuoL primers on CC1, CC8, and CC12 and a *Staphylococcus* control. Test of $MgCl_2^{2+}$ gradient (2.5 mM, 3 mM, 3.5 mM, and 4 mM). Abbreviation: CC: clonal complex; $MgCl$: magnesium chloride.



Change of elongation time and temperature gradient (nuoL1 primers). Change of elongation from 45 sec. to 1 min. PCR program: 3 min. at 95°C followed by 25 cycles of 20 sec at 98 °C, 15 sec at 50-54 °C, 1 min. at 72 °C, and 5 min. at 72 °C. Temperature gradient from 50-54 °C . Abbreviation: CC: clonal complex; Staph: *Staphylococcus*



Test of touchdown PCR (Tested all clonal complex isolates on nuoL primers). PCR program: (-0,5% touchdown 10 cycles, 55°C→50°C), annealing temperature 52 °C



Test of new polymerases + longer elongation time. Test of Phusion Hot Start II High-fidelity PCR master mix (left) and AQ97 High-Fidelity DNA Polymerase 2x Master Mix (right). Changed elongation time from 45 sec. to 1 min.