Study	Type of PCR	Primers	Identified microorganisms
Portillo et al, 2012	Real-time multiplex PCR (SeptiFasta, Roche Diagnostics)	NA	*Escherichia coli* *Enterobacter spp.* *Klebsiella spp.* *Proteus spp.* *Coagulase-negative staphylococci* *S. aureus* *Enterococcus spp.* *P. acnes*
Marín et al, 2012	16S rRNA gene was amplified using conventional PCR. GeneAmp PCR system 9700 (Applied Biosystems Inc.)	fD1 (forward, 5=-AGAGTTTGATCCTGGCTCAG-3=) rP2 (reverse, 5=-ACGGCTACCTTGTTACGACTT-3=) GloF (forward, 5=-GAAGAGCCAAGGACAGGTAC-3=) GloR (reverse, 5=-GGAAAATAGACCAATAGGCAG-3=)	*S. aureus* *CoNSa/Staphylococcus epidermidis* *Enterococcus faecalis* *Streptococcus agalactiae* *Streptococcus viridans* *Escherichia coli* *Proteus mirabilis* *Pseudomonas aeruginosa* *Propionibacterium acnes* *Other anaerobes*
Jacovides et al, 2012	Deep 16S rRNA gene sequencing with use of a sequencing system from 454 Life Sciences (Branford, Connecticut).	NA	*Acinetobacter* *Campylobacter* *Candida* *Cladosporium* *Corynebacterium* *Enterococcus* *Klebsiella* *Mycoplasma* *Peptostreptococcus*

			Propionibacterium *Pseudomonas* *Staphylococcus* *Streptococcus* *Treponema* *Other*
Gomez et al, 2012	16S rRNA gene real-time PCR using the LightCycler 2.0 instrument (Roche Molecular Diagnostics, Indianapolis, IN)	16S rRNA gene V3-V4 region(forward-5'-CGG-CCC-AGA-CTC-CTA-CGG-GAG-GCA140 GCA-3' and reverse -5'-GCG-TGG-ACT-ACC-AGG-GTA-TCT-AAT-CC-3')	*Streptococcus sp* *CNS* *Enterococcus sp.* *Pseudomonas sp.* *F. magna* *P. acnes* *S.aureus* *P. melaninogenica* *Corynebacterium sp.* *Pandoraea norinbergensis* *E. faecalis* *Staphylococcus lugdunensis* *Actinomyces neuii* *GPB* *Serratia marcescens*
Esteban et al, 2012	PCR-based amplification of a fragment from the 16 rRNA gene using the GenoType commercial system BC Grampositive and BC Gramnegative (Hain Lifescience GmbH, Nehren, Germany)	NA	*S. aureus* *S. epidermidis* *S. warneri* *S. hominis* *S. lugdunensis* *S. pyogenes* *M. abscessus* *E. aerogenes* *B. fragilis*

			P. acnes *P. aeruginosa* *K. pneumoniae* *E. coli* *R. picketti* *Burkholderia sp.* *S. maltophilia* *Pasteurella sp.* *Prevotella sp.* *Candida sp.* *A. terreus*
Bergin et al, 2010	Conserved 16S rRNA primers were used as a universal screen for bacterial infection and iScript one-step RT-PCR Kit with SYBR Green on an iCycler Thermal Cycler (Bio-Rad, Hercules, California).	387-base-pair segment(forward 5'-ATTAGATACCCTGGTAGTCCACGCC- 3' and reverse 5'-CGTCATCCCCACCTTCCTCC-3') Group-A Streptococcus (forward 5'-AATACCGCATAAGAGAGACTAACG-3' and reverse 5'-CTCGCTAGAGTGCCCAACTTA-3') Group-B Streptococcus ((forward 5'-CTTTCTCTTCGGAGCAGAA-3' and reverse 5'-CTCGCTAGAGTGCCCAACTTA-3') Alpha-hemolytic Streptococcus (forward 5'-GTGAGAGTGGAAAGTTCACACTGT-3' and reverse 5'-AGCCTTTAACTTCAGACTTATCTAAC-3')	*Staphylococcus aureus* *Methicillin-resistant Staphylococcus aureus* *Staphylococcus epidermidis* *Staphylococcus saprophyticus* *Listeria monocytogenes* *Enterococcus faecalis* *Streptococcus pneumoniae* *Streptococcus pyogenes* *Streptococcus agalactiae* *Streptococcus oralis* *Escherichia coli* *Citrobacter freundii* *Proteus mirabilis* *Pseudomonas aeruginosa* *Acinetobacter baumannii*
Piper et al, 2009,	*Staphylococcal* and *P. acnes* rapid-cycle real-time LightCycler PCR.	*Staphylococcal*: targeting tuf *P. acnes*: PArA-1 (5'-AAGCG	*Staphylococcal* *P. acnes*

		TGAGTGACGGTAATGGGTA-3’ and PArA-2 (5’-CCACCATAACGTGCTGGCAACAGT-3’)	
Kobayashi et al, 2009	RT-PCR using the LightCycler system (Roche Diagnostics, Mannheim, Germany). Methicillin-resistant Staphylococcus aureus-specific detection kit (Roche Diagnostics) and broad range detection by universal PCR that targeted a part of the 16S rRNA gene.	NA	*Methicillin-resistant Staphylococcus aureus* *Staphylococcus epidermidis* *Escherichia coli*
Kobayashi et al, 2008	Universal PCR	*Staphylococcus*: regions of the *tuf* gene; *S. aureus*: (5’-GGCGATGCTCAATACGAAGAAAAAA TC-FITC-3’ and 5’-LCRed705-AGA ATCAATGGAAGCTGTAGATAC-phosphate-3’)	*Staphylococcal* *P. acnes*
Gallo et al, 2008	PCR assay targeting the 16S rDNA gene	(forward primer RW01: 5’ AACTGGAGGAAGGTGGGGAT 3’; reverse primer DG74: 5’ TGCGGTTGGATCACCTCCT 3’)	*Staphylococcal* *P. acnes*
Moojen et al, 2007	PCR of the 16S rRNA Gene	NA	NA
Panousis et al, 2005	PCR of the 16S rRNA Gene	NA	*Staphylococcus* *Streptococcus viridans* *Streptococcus mitis* *Streptococcus* *Candida* *Enterococcus* *Diphtheroids*
Tunney et al, 1999	PCR of the 16S rRNA Gene	D1(5’-GAGGAAGGTRGGGAYGACGT) D2 (5’-AGGCCC GGGAACGYATTYACCG)	*S. capitis* *S. epidermidis* *Staphylococcus haemolyticus* *P. acnes* *Micrococcus agilis*

			B. fragilis *E. coli* *Peptostreptococcus sp.*
Mariani et al, 1996	PCR of the 16S rRNA Gene	5' was CGGCAGGCCTAACACATGCAAGTCG; 3' was GGTTGCGGCCGTACTCCCCAGG.	NA

Table S1 The information of PCR.

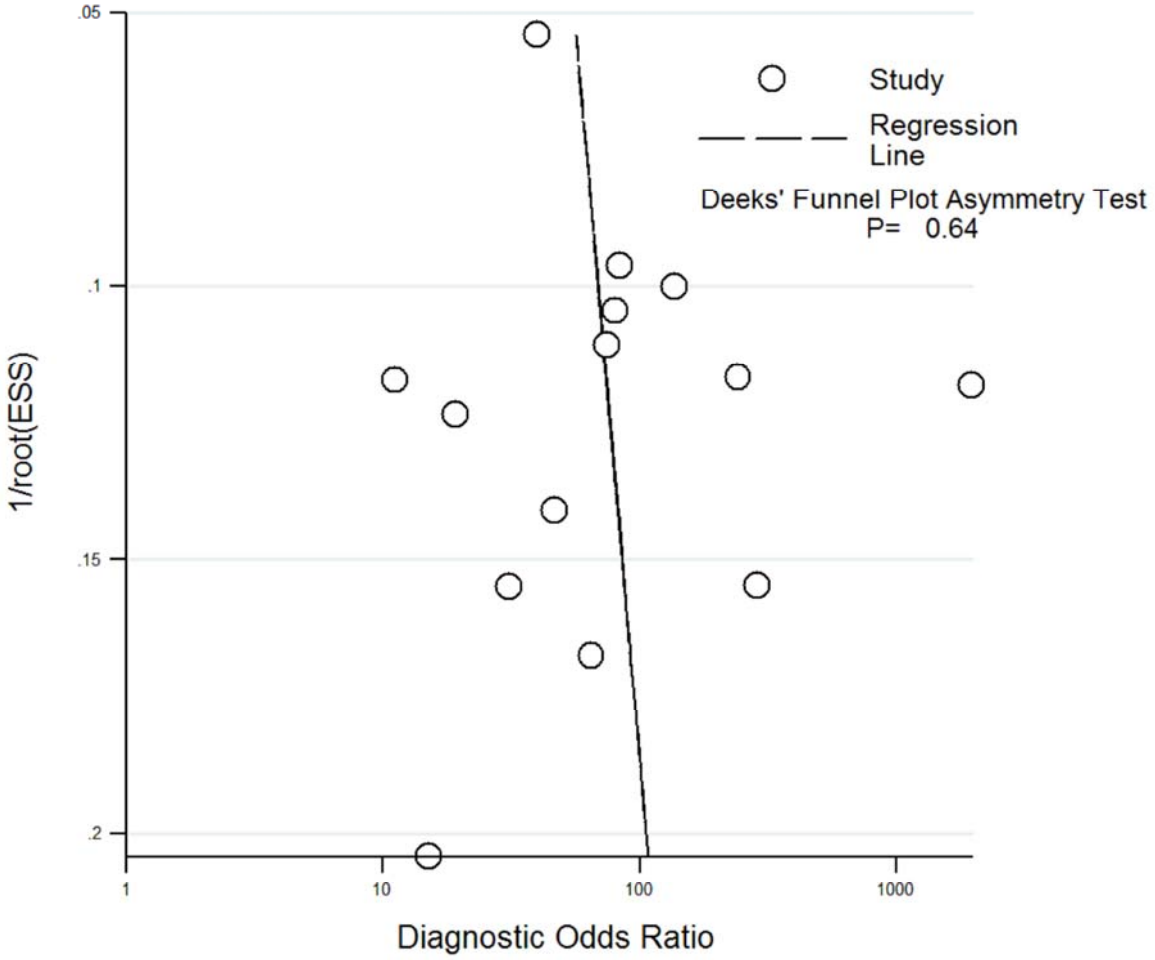

FIG. S1 Funnel plots for included studies