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| **Bacterial strains** | **Origins** | **Characteristics** |
| *Staphylococcus aureus**ATCC25923* | A gift from Prof. Luhua Lai atPeking University | G+ |
| Methicillin-resistant*Staphylococcus aureus*ATCC43300 | Hangzhou Binhe Microorganism Reagent Co, Ltd. | G+, multi-drug resistant,streptomycin-sensitive |
| *Staphylococcus epidermidis**CMCC26069* | Hangzhou Binhe MicroorganismReagent Co, Ltd. | G+,Streptomycin-resistant |
| *Enterococcus faecalis**ATCC29212* | Hangzhou Binhe MicroorganismReagent Co, Ltd. | G+, multi-drug resistant |
| *Streptococcus pyogenes ATCC19615* | Purchased from HangzhouBinhe Microorganism Reagent Co, Ltd. | G+, multi-drug resistant |
| *Micrococcus luteus**CMCC28001* | A gift from Dr. Qingeng Huangat Fujian Normal University | G+, tobramycin- andkanamycin-resistant |
| *Streptococcus iniae* | Purchased from HangzhouBinhe Microorganism Reagent Co, Ltd. | G+, multi-drug resistant |
| *Escherichia coli* BW25113 | the Nara Institute of Science andTechnology (Ikoma, Nara, Japan) | G-, the parent strain(wild type) for Keio collection |
| *Pseudomonas aeruginosa* PAO1 | A gift from Dr. Zhexian Tian atPeking University | G-, kanamycin- andampicillin-resistant |
| *Shigella flexneri* 24T7T | A gift from Prof. Xiaoyun Liu atPeking University | G-,Streptomycin-resistant |
| *Klebsiella pneumoniae*KP-D367 | A gift from Prof. Xuanxian Pengat Sun Yat-Sen University | G-, multi-drug resistant |
| *Mycobacterium tuberculosis*H37Ra | A gift from Prof. Zengyi Changat Peking University |  |