

**LIST OF ABBREVIATIONS**

|            |                                                                        |
|------------|------------------------------------------------------------------------|
| aa         | Amino acids                                                            |
| Amp        | Ampicillin                                                             |
| ANOVA      | Analysis Of Variance                                                   |
| APS        | Ammonium persulfate                                                    |
| BHI        | Brain Heart Infusion                                                   |
| Bla        | Beta-lactamase                                                         |
| BLAST      | Basic Local Alignment search tool                                      |
| bp         | base pair                                                              |
| cDNA       | complementary DNA                                                      |
| cm         | centimetre                                                             |
| Ct         | cycle threshold                                                        |
| DIG        | Digoxigenin                                                            |
| DMAB       | Dimethyl amino benzaldehyde                                            |
| DNA        | Deoxyribonucleic acid                                                  |
| dNTP       | Deoxyribonucleotide triphosphate                                       |
| E $\sigma$ | RNAP holoenzyme                                                        |
| EDTA       | Ethylene diamine tetra acetic acid                                     |
| Ery        | Erythromycin                                                           |
| EtBr       | Ethidium Bromide                                                       |
| h          | hour                                                                   |
| IPTG       | Isopropyl $\beta$ -D-1-Thiogalactopyranoside                           |
| kDa        | kilo Dalton                                                            |
| Km         | kanamycin                                                              |
| kV         | kilo Volt                                                              |
| LB         | Luria Bertani                                                          |
| M          | Molar                                                                  |
| mA         | milliampere                                                            |
| mg         | milligram                                                              |
| min        | minute                                                                 |
| ml         | millilitre                                                             |
| mM         | millimolar                                                             |
| mRNA       | messenger RNA                                                          |
| NAG        | N-acetyl glucoseamine                                                  |
| NARSA      | Network on antimicrobial resistance in<br><i>Staphylococcus aureus</i> |
| NCBI       | National center for biotechnology<br>information                       |
| ncRNA      | non coding RNA                                                         |
| ng         | nanogram                                                               |
| nm         | nanometer                                                              |
| nt         | nucleotide                                                             |
| OD         | optical density                                                        |

|         |                                                         |
|---------|---------------------------------------------------------|
| PAGE    | poly acrylamide gel Electrophoresis                     |
| pBSKS   | pBluescript KS(+)                                       |
| PCR     | Polymerase Chain Reaction                               |
| qRT-PCR | quantitative real time PCR                              |
| r       | resistant                                               |
| RBS     | ribosome binding site                                   |
| RBP     | RNA binding protein                                     |
| RNA     | Ribonucleic acid                                        |
| rNTP    | Ribonucleotide triphosphate                             |
| rpm     | revolutions per minute                                  |
| rRNA    | ribosomal RNA                                           |
| SD      | Shine Dalgarno                                          |
| SDS     | Sodium Dodecyl Sulfate                                  |
| sec     | Second                                                  |
| sRNA    | small RNA                                               |
| TBE     | Tris-borate-EDTA                                        |
| TCS     | Two component system                                    |
| TE      | Tris EDTA                                               |
| TEMED   | N,N,N',N'-Tetramethylethylenediamine                    |
| TF      | Transcription factor                                    |
| Tris    | Tris (hydroxymethyl) aminomethane                       |
| UTR     | untranslated region                                     |
| UV      | ultraviolet                                             |
| V       | Volt                                                    |
| WT      | wild type                                               |
| X-Gal   | 5-Bromo-4-chloro-3-indolyl $\beta$ -D-galactopyranoside |
| $\mu$ F | microfarads                                             |
| $\mu$ g | microgram                                               |
| $\mu$ l | microlitre                                              |