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| **Gene****Additional File 5: List of primers and their amplicons size used in the present study.** | **Forward (5’-3’)** | **Reverse (5’-3’)** | **Amplicon Size** |
| **For amplification** **of Protective Antigen gene (This study)** |  |
| pag (PA- F and PA-R) | CAGGAGAACCGGTTATTA | TCTTGATCCCGTTGGTAC | 2158 bp |
| **For amplification** **of 16S RNA gene(Brosius et al. [54])** |
| 16SrRNA(16S-27F and 16S-1488R) | AGAGTTTGATCATGGCTCAG | ACGGTTACCTTGTTACGACT | 1.5 kb |
| **For amplification** ***B. anthracis*** **prophage genes(Sozhamannan et al. [8])** |
| LambdaBa01 | AACAAATTCAGTTGCGCTTCC | CGATGAAGTGACGAGCATCAT | 221 bp |
| LambdaBa02 | TCACTTGCCAGTCTTGACCTTG | GTTTCGGCAGTGAAGATGGAC | 233 bp |
| LambdaBa03 | ACGTTACCCCTATTTCCGAAGC | CAGAAGTTAAGCCAGTACGGCC | 189 bp |
| LambdaBa04 | CCAGTTGAATCCAGAACAAACG | GCTTCCATGCTCGTTACAATTC | 157 bp |
| **For amplification** **of *B. anthracis* specific loci marker(Radnedge et al. [7])** |
| dhp 61.183 (loci A) | GAAGGACGATACAGACATTTATTGG | ACCGCAAGTTGAATAGCAAG | 163 bp |
| dhp 77.002 (loci C) | TGATATTTATGACCAAGATTCAATATACG | GCCATAGCTCAAGGTCAATAGG | 133 bp |
| dhp 73.019 (loci D) | AAAGGCGGTTTAGAATTTGG | TGCTGCTCTTTACCCATGC | 196 bp |
| dhp 73.017 (loci E) | TGTAAATGAACGCCTTGACC | CCGACTCCTTCTATCAATTCC | 241 bp |
| **For amplification** **of *B. anthracis* specific canSNP loci(Van Ert et al. [9])** |
| A.Br.001 | GTGGTAAGGCAAGCGGAAC | ACGGTTTCCCTTTATCATCG | 76 bp |
| A.Br.002 | GCAGAAGGAGCAAGTAATGTTATAGGT | CCTAAAATCGATAAAGCGACTGC | 62 bp |
| A.Br.003 | AAAGGAATTTAGATTTTCGTGTCG | ATAAAAACCTCCTTTTTCTACCTCA | 58 bp |
| A.Br.004 | ATCGCCGTCATACTTTGGAA | GGAATTGGTGGAGCTATGGA | 53 bp |
| A.Br.006 | GCGTTTTTAAGTTCATCATACCC | ATGTTGTTGATCATTCCATCG | 54 bp |
| A.Br.007 | TTACAAGGTGGTAGTATTCGAGCTG | TTGGTAACGAGACGATAAACTGAA | 67 bp |
| A.Br.008 | CCAAACGGTGAAAAAGTTACAAA | GCAACTACGCTATACGTTTTAGATGG | 67 bp |
| A.Br.009 | AATCGGCCACTGTTTTTGAAC | AGGTATATTAACTGCGGATGATGC | 55 bp |
| B.Br.001 | GCACGGTCATAAAAGAAATCG | TGTTCAAAAGGTTCGGATATGA | 75 bp |
| B.Br.002 | GCACCTTCTGTGTTCGTTGTT | TTCACCGAATGGAGGAGAAG | 68 bp |
| B.Br.003 | ATTCGCATAGAAGCAGATGAGC | TCAAGTTCATAACGAACCATAACG | 62 bp |
| B.Br.004 | TGCTTGGGTAACCTTCTTTACTT | AGAATAAAATGAAGATAATGACAAACG | 62 bp |
| A/B.Br.001 | ATTCCAATCGCTGCACTCTT | CCCCGATAATTTTCACAAAGC | 59 bp |
| **For Sequencing(This study)** |  |
| M13 | GTAAAACGACGGCCAGT | CAGGAAACAGCTATGAC | - |
| PA F1 | GTTGTACTGGACCGATTC | - | - |
| PA F2 | GTTCTTTGATATTGGTGGGAG | - | - |