Table S1. Distribution of the studied strains by the MVLST-pXO1 genotype (MVLST-pXO1-GT) depending on the combination of pagA, lef, cya, and atxA gene sequencetypes (ST).

| Strain* | Collection** | Location | canSNP group | *pagA*-ST | *lef*-ST | *cya*-ST | ST-atxA | MVLST-pXO1-GT |
|---|---|---|---|---|---|---|---|---|
| I-271 | SRCAMB | Russia: Yamal Peninsula | A.Br.001/002 | 1 | 1 | 1 | 1 | 1 |
| 34(738) | SRCAMB | Kazakhstan | A.Br.001/002 | 1 | 1 | 1 | 1 | 1 |
| 52/33 | SRCAMB | Russia: Chechen Republic | A.Br.001/002 | 1 | 1 | 1 | 1 | 1 |
| 14RA5914 | | Germany | A.Br.001/002 | 1 | 1 | 1 | 1 | 1 |
| A16 | | China | A.Br.001/002 | 1 | 1 | 1 | 1 | 1 |
| Stendal | | Germany | A.Br.001/002 | 1 | 1 | 1 | 1 | 1 |
| A16R | | China | A.Br.001/002 | 1 | 1 | 1 | 1 | 1 |
| Shikan-NIID | | Japan | A.Br.Ames | 1 | 1 | 1 | 1 | 1 |
| Ames Ancestor | | USA | A.Br.Ames | 1 | 1 | 1 | 1 | 1 |
| A0248 | | USA | A.Br.Ames | 1 | 1 | 1 | 1 | 1 |
| A2012 | | USA | A.Br.Ames | 1 | 1 | 1 | 1 | 1 |
| 1273 | SRCAMB | Russia: Volgograd region | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| 53169 | SRCAMB | missing | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| 1055/38 | SRCAMB | Russia: Samara region | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| 592/10 | SRCAMB | Moldova | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| 644/268 | SRCAMB | Ukraine | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| 8(2099) | SRCAMB | Russia: Tatarstan | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| STI-1 | SRCAMB | the laboratory strain | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| LP51/4YA | SRCAMB | Russia: Yakutia | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| BA1015 | | USA | A.Br.003/004 | 2 | 1 | 2 | 1 | 2 |
| V770-NP-1R | | USA | A.Br.003/004 | 2 | 1 | 2 | 1 | 2 |
| A0135 | | Tanzania | A.Br.005/006 | 2 | 1 | 2 | 1 | 2 |
| Larissa | | Greece | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| Turkey32 | | Turkey | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| PAK-1 | | Pakistan | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| K1285 | | Namibia | A.Br.008/011 | 2 | 1 | 2 | 1 | 2 |
| A1144 | | Argentina | A.Br.011/009 | 2 | 1 | 2 | 1 | 2 |
| Pollino | | Italy | A.Br.011/009 | 2 | 1 | 2 | 1 | 2 |
| London 499 | | Great Britain | A.Br.011/009 | 2 | 1 | 2 | 1 | 2 |
| 1(14) Stavropol | SRCAMB | Ukraine | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1030/213 | SRCAMB | Russia: Karachay-Cherkessia | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 1056/51 | SRCAMB | Russia: Stavropol territory | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 219/6 | SRCAMB | Uzbekistan | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 367/17 | SRCAMB | Russia: Tula region | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 46/27 | SRCAMB | Russia: Chechen Republic | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 47/28 | SRCAMB | Russia: Chechen Republic | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 48/29 | SRCAMB | Russia: Chechen Republic | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 531/17 | SRCAMB | Russia: Kalmyk Republic | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 546/714 | SRCAMB | Russia: Voronezh region | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 555/288 | SRCAMB | Russia: Orenburg region | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 68/12 | SRCAMB | Azerbaijan | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 7(992) | SRCAMB | Russia: Novgorod region | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 914/213 | SRCAMB | Russia: Chechen Republic | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| LP50/3YA | SRCAMB | Russia: Yakutia | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 1183 | SRCAMB | Russia: Kabardino-Balkar Republic | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 1298 | SRCAMB | Russia: Volgograd region | A.Br.008/011 | 3 | 2 | 2 | 1 | 3 |
| 1173 | SRCAMB | Russia: Stavropol territory | A.Br.Aust94 | 1 | 1 | 2 | 1 | 4 |
| 1259 | SRCAMB | Russia: Stavropol territory | A.Br.Aust94 | 1 | 1 | 2 | 1 | 4 |
| 1199 | SRCAMB | Russia: Dagestan | A.Br.Aust94 | 1 | 1 | 2 | 1 | 4 |
| 331/214 | SRCAMB | Azerbaijan | A.Br.Aust94 | 1 | 1 | 2 | 1 | 4 |
| 822/7 | SRCAMB | Russia: Chechen Republic | A.Br.Aust94 | 1 | 1 | 2 | 1 | 4 |
| Kanchipuram | | India | A.Br.Aust94 | 1 | 1 | 2 | 1 | 4 |
| A3716 | | Namibia | A.Br.Aust94 | 1 | 1 | 2 | 1 | 4 |
| LP53/5YA | SRCAMB | Russia: Yakutia | B.Br.001/002 | 2 | 3 | 3 | 1 | 5 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Yamal-2 | SRCAMB | Russia: Yamal Peninsula | B.Br.001/002 | 2 | 3 | 3 | 1 | 5 |
| 44 | SRCAMB | missing | B.Br.CNEVA | 2 | 3 | 3 | 1 | 5 |
| Tyrol 4675 | | Austria | B.Br.CNEVA | 2 | 3 | 3 | 1 | 5 |
| RA3 | | France | B.Br.CNEVA | 2 | 3 | 3 | 1 | 5 |
| BF1 | | Germany | B.Br.CNEVA | 2 | 3 | 3 | 1 | 5 |
| 17OD930 | | Switzerland | B.Br.CNEVA | 2 | 3 | 3 | 1 | 5 |
| 11(1940) | SRCAMB | Turkmenistan | A.Br.Vollum | 4 | 1 | 2 | 1 | 6 |
| 15(1345) | SRCAMB | Tajikistan | A.Br.Vollum | 4 | 1 | 2 | 1 | 6 |
| SK-102 | | USA | A.Br.Vollum | 4 | 1 | 2 | 1 | 6 |
| Vollum 1B | | USA | A.Br.Vollum | 4 | 1 | 2 | 1 | 6 |
| Vollum | | USA | A.Br.Vollum | 4 | 1 | 2 | 1 | 6 |
| CDC 684 | | USA | A.Br.Vollum | 4 | 1 | 2 | 1 | 6 |
| Tangail-1 | | Bangladesh | A.Br.001/002 | 1 | 4 | 1 | 1 | 7 |
| BFV | | Jamaica | A.Br.001/002 | 1 | 4 | 1 | 1 | 7 |
| FDAARGOS 341 | | USA | A.Br.001/002 | 1 | 4 | 1 | 1 | 7 |
| SPV842 15 | | Brazil | A.Br.001/002 | 1 | 4 | 1 | 1 | 7 |
| Sterne | | USA | A.Br.001/002 | 1 | 4 | 1 | 1 | 7 |
| K3 | | South Africa | A.Br.005/006 | 2 | 1 | 4 | 1 | 8 |
| CZC5 | | Zambia | A.Br.005/006 | 2 | 1 | 4 | 1 | 8 |
| A2075 | | Tanzania | A.Br.005/006 | 2 | 1 | 4 | 1 | 8 |
| 157(B-1107) | SRCAMB | Estonia | B.Br.001/002 | 5 | 3 | 3 | 1 | 9 |
| I-364 | SRCAMB | Russia: Buryatia | B.Br.001/002 | 5 | 3 | 3 | 1 | 9 |
| HYU01 | | Korea | B.Br.001/002 | 5 | 3 | 3 | 1 | 9 |
| BA1035 | | South Africa | B.Br.001/002 | 6 | 3 | 3 | 1 | 10 |
| SVA11 | | Sweden | B.Br.001/002 | 6 | 3 | 3 | 1 | 10 |
| A2079 | | Tanzania | A.Br.005/006 | 2 | 1 | 1 | 1 | 11 |
| H9401 | | Korea | A.Br.005/007 | 2 | 5 | 5 | 1 | 12 |
| Canadian bison | | Canada | A.Br.WNA | 2 | 1 | 6 | 1 | 13 |
| Ohio ACB | | USA | A.Br.Aust94 | 7 | 1 | 2 | 1 | 14 |
| Kruger B | | South Africa | B.Br.Kruger | 9 | 3 | 3 | 1 | 15 |
| 2002013094 | | USA | C.Br.001 | 8 | 6 | 7 | 1 | 16 |
| *Bacillus cereus biovar anthracis* CI | | Ivory Coast | - | 10 | 8 | 8 | 2 | 17 |
| *Bacillus cereus* 03BB102 | | USA | - | 11 | 7 | 9 | 1 | 18 |
| *Bacillus cereus* G9241 | | USA | - | 10 | 9 | 8 | 1 | 19 |

* strains belong to *B. anthracis*, unless otherwise specified

** The presence of the strain in the SRCAMB collection is indicated.

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