

Table S1. Sequencing IDs, epidemiological information and references of all 91 *B. anthracis* strains used in this study

ID	Country	Source	Year	SNP_group	Accession number	Reference
2016.AZ.3512.1.7	Italy	Goat	2016	A_Br_011_009	SRR10402317	This study
A0264	Turkey	Human	1994	A_Br_008_011	SRR19994417	[12]
A0088	South_Africa	/	/	A_Br_002_003	SRR2968133	[12]
A0091	South_Africa	/	1939	B_Br_001_002	SRR2968134	[12]
A0094	South_Africa	/	1949	A_Br_003_004	SRR2968135	[12]
A0293	Italy	Sheep	/	A_Br_008_011	SRR2968137	[12]
A0684	China	Soil	1982	A_Br_008_011	SRR2968138	[12]
A1035	Albania	Sheep	/	A_Br_008_011	SRR2968140	[12]
A0002	Turkey	/	/	A_Br_002_003	SRR2968144	[12]
A0656	China	Soil	1982	A_Br_002_003	SRR2968145	[12]
A1096	Argentina	Bovine	/	A_Br_003_004	SRR2968148	[12]
A3716	Namibia	Zebra	2006	A_Br_002_003	SRR2968149	[12]
A0006	Australia	/	/	A_Br_005_006	SRR2968150	[12]
A0017	Zambia	/	/	A_Br_005_006	SRR2968151	[12]
A0026	UK	Equine	1992	A_Br_005_006	SRR2968152	[12]
A0062	Poland	/	/	A_Br_008_011	SRR2968154	[12]
A0083	Germany	Soil	/	A_Br_002_003	SRR2968155	[12]
A0224	Australia	Flies	/	A_Br_002_003	SRR2968158	[12]
A0245	Turkey	Bovine	/	A_Br_008_011	SRR2968159	[12]
A0252	Zimbabwe	/	/	A_Br_002_003	SRR2968160	[12]
A0363	Norway	Bovine	/	A_Br_007	SRR2968161	[12]
A0380	UK	wool	/	A_Br_007	SRR2968162	[12]
A0386	UK	Human	/	A_Br_002_003	SRR2968163	[12]
A0404	India	Human	/	A_Br_002_003	SRR2968164	[12]
A0455	Mozambique	Bovine	1965	A_Br_002_003	SRR2968165	[12]
A0464	Indonesia	Bovine	/	A_Br_005_008_005_007	SRR2968166	[12]
A0478	Spain	Environment	/	A_Br_007	SRR2968167	[12]
A0481	Russia	Vaccine	/	A_Br_008_011	SRR2968168	[12]
A0530	Botswana	elephant	/	A_Br_005_006	SRR2968170	[12]
A0533	South_Africa	Goat	/	A_Br_005_006	SRR2968171	[12]
A0615	China	Soil	1981	A_Br_007	SRR2968173	[12]
A0843	Italy	Sheep	1993	A_Br_011_009	SRR2968174	[12]
A0847	Italy	Sheep	1997	A_Br_008_011	SRR2968175	[12]
A0853	Italy	Bovine	1999	A_Br_011_009	SRR2968176	[12]
A0854	Italy	Bovine	1999	A_Br_011_009	SRR2968177	[12]
A0860	Italy	Sheep	1984	A_Br_011_009	SRR2968178	[12]

A0862A	Italy	Sheep	1984	A_Br_011_009	SRR2968179	[12]
A0873	Italy	Bovine	1972	A_Br_011_009	SRR2968180	[12]
A0878	Italy	/	/	A_Br_011_009	SRR2968181	[12]
A0881	Italy	Human	/	A_Br_011_009	SRR2968182	[12]
A1058	USA	Bovine	1957	A_Br_007	SRR2968183	[12]
A1063	USA	/	1960	A_Br_007	SRR2968184	[12]
A1082	Italy	Bovine	/	A_Br_011_009	SRR2968185	[12]
A2075	Tanzania	Baboon	1999	A_Br_005_006	SRR2968187	[12]
A2079	Tanzania	Impala	1999	A_Br_005_006	SRR2968188	[12]
A0001	Turkey	/	/	A_Br_002_003	SRR2968189	[12]
A0081	Germany	Soil	1998	A_Br_003_004	SRR2968190	[12]
A0096	South_Africa	/	1939	A_Br_003_004	SRR2968191	[12]
A0097	South_Africa	/	1938	A_Br_003_004	SRR2968192	[12]
A0103	Turkey	Bovine	/	A_Br_002_003	SRR2968193	[12]
A0148	Turkey	Human	1990	A_Br_002_003	SRR2968194	[12]
A1101	Argentina	Bovine	/	A_Br_003_004	SRR2968195	[12]
A1102	Argentina	Pig	/	A_Br_003_004	SRR2968196	[12]
A11193	Bulgaria	Bovine	1960_80	A_Br_008_011	SRR2968197	[12]
A0150	Turkey	Human	1995	A_Br_008_011	SRR2968200	[12]
A0303	Canada	Bovine	/	A_Br_009	SRR2968201	[12]
A0362	Norway	Bovine	/	A_Br_008_011	SRR2968203	[12]
A0401	France	Bovine	/	A_Br_011_009	SRR2968204	[12]
A0417	Hungary	/	/	A_Br_008_011	SRR2968172	[12]
A0675	China	Soil	1982	A_Br_008_011	SRR2968207	[12]
A0862B	Italy	Sheep	1984	A_Br_011_009	SRR2968209	[12]
A0891	Italy	Goat	1989	A_Br_011_009	SRR2968210	[12]
A0893	Italy	Goat	1996	A_Br_011_009	SRR2968211	[12]
A0894	Italy	Goat	1997	A_Br_011_009	SRR2968212	[12]
A1050	Italy	Bovine	/	A_Br_011_009	SRR2968214	[12]
A3802	Ivory coast	Goat hide	2006	A_Br_011_009	SRR2968215	[12]
Shikan_NID	Japan	Equine	1928	A_Br_001	GCA_002356575.1_ASM235657v1	[12]
RA3	France	Bovine	1997	B_Br_004	GCA_000832745.1_ASM83274v1	[12]
A1144	Argentina	Bovine	/	A_Br_011_009	GCA_000875715.1_ASM87571v1	[12]
A1045	USA	Bovine	1952	A_Br_001_002	GCA_000008165.1_ASM816v1	[12]
Ames_ancestor	USA	Bovine		A_Br_Ames	GCA_000008445.1_ASM844v1	[12]
BFV	Jamaica	Environment	/	A_Br_001_002	GCA_000742875.1_ASM74287v1	[12]
K0021	Italy	Sheep	/	A_Br_011_009	GCA_001273045.1_BANT008-SEQ-1-ASM-1	[12]
A0937	Thailand	/	/	A_Br_001_002	GCF_000007845.1_ASM784v1	[12]

A1055	USA	Soil	1956	C_Br_A1055	GCA_000167255.1_ASM16725v1	[12]
PAK-1	Pakistan	Sheep	1978	A_Br_008_011	GCF_000832425.1_ASM83242v1	[12]
Canadian_bison	USA	Bison	/	A_Br_009	GCA_000833125.1_ASM83312v1	[12]
Pasteur	UK	Cat	/	A_Br_008_011	GCA_000832585.1_ASM83258v1	[12]
BA1015	USA	Bovine	1939	A_Br_003_004	GCA_000832665.1_ASM83266v1	[12]
2002013094	USA	Environment	1956	C_Br_001	GCA_000783235.1_ASM78323v1	[12]
Australia94	Australia	Bovine	1994	A_Br_Aust94	GCA_000167235.1_ASM16723v1	[12]
Carbosap	Italy	/	1940_45	A_Br_011_009	GCF_000310045.1_Carbosap_v1	[12]
3154	Bulgaria	Soil	1960_80	A_Br_008_011	GCA_000319695.1_BA_3154assembly	[12]
Kruger_B	South_Africa	/	/	B_Br_KrugerB	GCA_000167295.1_ASM16729v1	[12]
Tsiankovskii_I	Russia	Vaccine	1960	A_Br_008_011	GCF_000181675.2_ASM18167v2	[12]
Pollino	Italy	Bovine	/	A_Br_011_009	GCA_000831505.1_ASM83150v1	[12]
A4566	Denmark	Human	2012	A_Br_008_011	SRR1999716	[12]
A4568	Norway	Human	2000	A_Br_008_011	SRR1999718	[12]
A0696	China	soil	1982	A_Br_008_011	SRR2968208	[12]
A0033	China	wool	/	A_Br_008_011	SRR2968153	[12]
K2129	China	fur	/	A_Br_008_011	LFYG01000000.1	[12]