

Table S1*Bacillus* strains used in this study whose genome sequences are available from GenBank.

Species and strain	H-antigen	Description	Accession no. of genome
<i>Bacillus anthracis</i>			
A0174	-	Animal, cattle (bovine) [pXO1+/pXO2-]	NZ_ABLT01000000
A0193	-	Animal, cattle (cow) [pXO1+/pXO2+]	NZ_ABKF01000000
A0389	-	[pXO1+/pXO2+]	NZ_ABLB00000000
A0442	-	Animal, Kudu [pXO1+/pXO2+]	NZ_ABKG01000000
A0465	-	Animal, cattle (Cow), spleen [pXO1+/pXO2+]	NZ_ABLH01000000
A0488	-	Animal, cattle (cow)	NZ_ABJC01000000
A1055	-	[pXO1-/pXO2+]	NZ_AAEO01000000
A0248	-	Human	CP001598.1
Ames	-	[pXO1-/pXO2-]	AE016879.1
Ames Ancestor	-	Animal, cattle (Cow)	AE017334.2
Australia-94	-	Animal, cattle (Bovine) [pXO1+/pXO2+]	NZ_AAES00000000
BF1	-	Animal, cow carcass [pXO1+/pXO2+]	AMDT01000000
CDC 684	-	[pXO1+/pXO2+]	CP001215.1
CNEVA-9066	-	Human [pXO1+/pXO2+]	NZ_AAEN01000000
H9401	-	Human [pXO1+/pXO2+]	NC_017729.1
Kruger-B	-	[pXO1+/pXO2+]	NZ_AAEQ01000000
Sterne	-	Animal, cattle (cow)	AE017225.1
Tsiankovskii-I	-	[pXO1+/pXO2+]	NZ_ABDN00000000
UR-1	-	[pXO1+/pXO2+]	ALNY00000000
Vollum	-	[pXO1+/pXO2+]	NZ_AAEP01000000
Western-North-America-USA6153	-	Animal, Bison [pXO1+/pXO2+]	NZ_AAER01000000
<i>Bacillus cereus</i>			
03BB102	-	Human, blood	CP001407.1
03BB108	-	Dust in clinical case workspace	NZ_ABDM02000020.1
172560 W	-	Human, burn wound	NZ_ACLV01000026.1
95/8201	-	Human, endocarditis	NZ_ACMF01000000.1
AH1134	-	Human, eye [pediatric Endophthalmitis case]	NZ_ABDA02000001.1
AH1271	-	Human	NZ_ACMR01000046.1
AH1272	-	Human, amniotic fluid	NZ_ACMS01000052.1
AH1273	-	Human, blood	NZ_ACMT01000058.1
AH603	-	Other, secretary lamp	NZ_ACMP01000032.1
AH621	-	Soil, heather soil	NZ_ACLX01000032.1
AH187	-	Human, vomit [emetic food poisoning outbreak]	CP001177.1
AH676	-	Soil, heather soil	NZ_ACMQ01000028.1
AH820	-	Human, periodontitis	CP001283.1
AND1407	-	Food [emetic toxin/cereulide]	AHCM01000000
ATCC 10876	-	Other, contaminated flask	NZ_ACLT01000025.1
ATCC10987	-	Dairy products, Cheese	AE017194.1

ATCC 14579	-	Other, Farm, cowshed air	AE016877.1
ATCC4342	-	Dairy products, milk	NZ_ACLZ01000016.1
B4264	-	pleural fluid [human fatal]	CP001176.1
BAG1X1-2	-	Soil	AHCR01000000
BAG1X1-3	-	Soil	AHCS01000000
BAG2X1-2	-	Soil	AHDA01000000
BAG3O-2	-	Soil	AHDC01000000
BAG3X2-1	-	Soil	AHDD01000000
BAG3X2-2	-	Soil	AHDE01000000
BAG4O-1	-	Soil	AHDF01000000
BAG4X12-1	-	Soil	AHDG01000000
BAG5X1-1	-	Soil	AHDJ01000000
BAG6X1-1	-	Soil	AHDO01000000
BAG6X1-2	-	Soil	AHDP01000000
BDRD-Cer4	-	BDRD	NZ_ACME01000017.1
BDRD-ST196	-	BDRD	NZ_ACMD01000044.1
BDRD-ST24	-	BDRD	NZ_ACMB01000021.1
BDRD-ST26	-	BDRD	NZ_ACMC01000026.1
BGSC 6E1	-	[produces chitinase]	NZ_ACLU00000000
biovar anthracis str. CI	-	Chimpanzee [clinical symptoms of anthrax]	NC_014335.1
CER057	-	Food [emetic toxin/cereulide]	AHDS01000000
CER074	-	Food [emetic toxin/cereulide]	AHDT01000000
E33L	-	Animal, Carcass of dead zebra	CP000001.1
F65185	-	Human, wound	NZ_ACMO01000018.1
F837/76	-	Human, wound [efficient diarrheal enterotoxin producer from prostate operation wound infection]	NC_016779.1
FRI-35	-	-	NC_018491.1
G9241	-	Human, sputum and blood	NZ_AAEK01000002.1
G9842	-	Human [human diarrhea]	CP001186.1
H3081.97	-	Food [emetic toxin/cereulide]	NZ_ABDL02000007.1
HuA2-1	-	Soil	AHDV01000000
HuA2-4	-	Soil	AHDX01000000
HuA4-10	-	Soil	AHEA01000000
HuB1-1	-	Soil	AHEB01000000
IS075	-	Animal, mammal	AHCH01000000
ISP3191	-	Food (spice)	AHEK01000000
LCT-BC244	-	-	AJGQ01000000
m1293	-	Dairy products, cream cheese	NZ_ACLS01000032.1
m1550	-	Food, uncooked chicken	NZ_ACMA01000019.1
MM3	-	Food	NZ_ACLW01000031.1
MSX-A1	-	Air	AHEO01000000
MSX-A12	-	Human	AHEP01000000
MSX-D12	-	Air	AHEQ01000000

NC7401	-	Human, faeces/stools or vomit [human vomiting, emetic toxin/cereulide producer]	NC_016771.1
NVH0391-98	-	Food, Vegetable puree [diarrheal food poisoning outbreak, fatal]	CP000764.1
Q1	-	deepsurface oil reservoir	NC_011969
R309803	-	Human, blood [human septicemia]	NZ_ACLY01000022.1
Rock1-15	-	Soil	NZ_ACMH01000022.1
Rock3-42	-	Soil	NZ_ADFM01000097.1
W	-	Soil	NZ_ABCZ02000009.1
VD014	-	Soil	AHER01000000
VD022	-	Water	AHCK01000000
VD045	-	Soil	AHET01000000
VD048	-	Soil	AHEU01000000
VD078	-	Soil	AHEV01000000
VD102	-	Soil	AHEW01000000
VD107	-	Soil	AHEX01000000
VD142	-	Soil	AHCL01000000
VD154	-	Soil	AHFG01000000
VD156	-	Soil	AHFH01000000
VD166	-	Soil	AHFI01000000
VD169	-	Soil	AHFJ01000000
VD200	-	Water	AHFM01000000
<i>Bacillus thuringiensis</i>			
97-27	34	Human, tissue necrosis	AE017355.1
Al Hakam	H-	Suspected bioweapons facility	CP000485.1
ATCC 10792	1	Animal, Insect	NZ_ACNF01000027.1
ATCC 35646	14	Other, sewage	NZ_AAJM01000044.1
BGSC 4AJ1	28ab	Isolated in Mexico	NZ_ACNE00000000
BGSC 4AW1	37	Isolated in Spain	NZ_ACNG01000000
BGSC 4BA1	20ac	Soil, Isolated in India	NZ_ACNH00000000
BGSC 4BD1	40	Isolated in China	NZ_ACNI00000000
BGSC 4CC1	65	Grain field, Isolated in Pakistan	NZ_ACNJ01000021.1
BGSC 4Y1	19	Isolated in Japan from soil	NZ_ACMY01000000
BMB171	H-	-	NC_014171.1
Bt4Q7	14	Plasmidless mutant	NZ_ACMZ01000025.1
CT43	H-	-	CP001907
HD-771	H4ab	-	NC_018500.1
HD73	-	-	CP004069.1
HD-789	-	-	NC_018508.1
IBL 200	H-	Human [israelensis-like serovar]	NZ_ACNK00000000
IBL 4222	H-	Animal, cat [israelensis-like serovar]	NZ_ACNL00000000
T01001	1	Animal, Insect, Isolated in Canada	NZ_ACNA00000000
T03a001	3abc	Animal, Insect, Isolated in the US	NZ_ACND00000000
T04001	4ab	Isolated in the US	NZ_ACNB00000000

T13001	13	Animal, Insect, Isolated in Pakistan	<u>NZ_ACNC01000000</u>
YBT020	2	Isolated by our team	<u>CP002508</u>
