

Table S2
***Bacillus thuringiensis* strains used in this study**

Species and strain	Serovar	H-antigen	Description	GenBank accession no. of <i>csaB</i> gene
BGSC 4B2	<i>finitimus</i>	2	Animal, Insect, Isolated in the US	JF330333
BGSC 4D11	<i>kurstaki</i>	3abc	- ^a	JF411015
HD-1	<i>kurstaki</i>	3abc	Isolated in the US	JF411014
YBT-1520	<i>kurstaki</i>	3abc	Isolated by our team	JF330334
BGSC 4C3	<i>alesti</i>	3ac	Animal, Insect, silkworm, Isolated in France	JF330335
BGSC 4AO1	<i>sumiyoshiensis</i>	3ad	Isolated in Japan	JF330336
BGSC 4AP1	<i>fukuokaensis</i>	3ade	Isolated from soils of Japan	JF330337
BGSC 4F1	<i>kenyae</i>	4ac	Animal, Insect, Isolated in England	JF330338
4G1	<i>galleriae</i>	5ab	Animal, Insect, Isolated in the USSR	JF330339
BGSC 4H2	<i>canadensis</i>	5ac	Animal, Insect, Isolated in Canada	JF330393
BGSC 4I4	<i>entomocidus</i>	6	Animal, Insect, Isolated in Canada	JF330340
T07001	<i>aizawai</i>	7	Animal, insect, Isolated in Japan	JF330322
BGSC 4K1	<i>morrisoni</i>	8ab	Isolated in USA	JX162610
BGSC 4Z1	<i>ostrinae</i>	8ac	Isolated in China	JF330341
BGSC 4AZ1	<i>nigeriensis</i>	8bd	Isolated in the USSR from soil	JF330342
BGSC 4L1	<i>tolworthi</i>	9	Animal, Insect, Isolated in England	JF330343
BGSC 4M1	<i>darmstadiensis</i>	10ab	Isolated in England	JF330344
BGSC 4BF1	<i>londrina</i>	10ac	Soil, Isolated in Germany	JF330345
BGSC 4N1	<i>toumanoffi</i>	11ab	Animal, Insect, Greater Wax Moth	JX162612
BGSC 4U1	<i>kyushuensis</i>	11ac	Animal, insect, silkworm	JX162616
BGSC 4O1	<i>thompsoni</i>	12	Animal, insect	JF330346
BGSC 4R1	<i>dakota</i>	15	Soil	JF330348
BGSC 4S3	<i>indiana</i>	16	Soil, Isolated in the US	JF330349
BGSC 4V1	<i>tohokuensis</i>	17	Animal, insect, Isolated in Japan	JF330350
BGSC 4W1	<i>kumamotoensis</i>	18ab	Animal, Insect, Isolated in Japan	JF330351 □
BGSC 4CA1	<i>yosoo</i>	18ac	Isolated in South Korea	JF330352
BGSC 4AM1	<i>yunnanensis</i>	20ab	Animal, Insect, Isolated in China	JF330354
BGSC 4X1	<i>colmeri</i>	21	Grain silo	JF330355
BGSC 4AN1	<i>shanongiensis</i>	22	Isolated in China	JF330356
BGSC 4AT1	<i>japonensis</i>	23	Isolated in Japan	JF330357
BGSC 4BE1	<i>neoleonensis</i>	24ab	Soil, Isolated in Mexico	JF330358
BGSC 4AX1	<i>novosibirsk</i>	24ac	Soil	JX162615
BGSC 4AL1	<i>coreanensis</i>	25	Isolated in South Korea	JF330359
BGSC 4AG1	<i>silo</i>	26	Grain silo dust, Isolated in France	JF330394
BGSC 4AC1	<i>mexicanensis</i>	27	-	JX162618
BGSC 4CF1	<i>jegathesan</i>	28ac	Soil, Isolated in Malaysia	JF330360
BGSC 4AE1	<i>amagiensis</i>	29	Animal, Insect, Isolated in Japan	JF330361
BGSC 4AD1	<i>toguchini</i>	31	Soil, Isolated in the USSR	JF330362
BGSC 4AF1	<i>cameroun</i>	32	Soil, Isolated in Denmark	JF330363
BGSC 4AK1	<i>leesis</i>	33	Toxic to <i>Bombyx mori</i> , Isolated in South Korea	JF330364

BGSC 4AH1	<i>konkukian</i>	34	Toxic to Bombyx mori, Isolated in South Korea	JF330365
BGSC 4AQ1	<i>seoulensis</i>	35	Soil, Isolated in South Korea	JF330389
BGSC 4AV1	<i>Malayensis</i>	36	Isolated in Malaysia	JF330366
BGSC 4AS1	<i>oswaldocruzi</i>	38	Food, black pepper powder, Isolated in Brazil	JF330367
BGSC 4AY1	<i>brasiliensis</i>	39	Food, black pepper powder, isolated in Brazil	JF330369
BGSC 4BB1	<i>sooncheon</i>	41	Isolated in South Korea	JF330370
BGSC 4AR1	<i>jinghongiensis</i>	42	Soil, Isolated in China	JF330371
BGSC 4BC1	<i>guiyangiensis</i>	43	Soil, Isolated in China	JF330372
BGSC 4AU1	<i>higo</i>	44	Animal, Insect, Bombyx mori	JX162614
BGSC 4BG1	<i>roskildiensis</i>	45	Plant, leaves of ivy, Isolated in Denmark	JF330373
BGSC 4BH1	<i>chanpaisis</i>	46	Soil, rice field, isolated in Thailand	JF330374
BGSC 4BJ1	<i>wratislaviensis</i>	47	Soil, Isolated in Poland	JF330375
BGSC 4BK1	<i>balearica</i>	48	Soil, Isolated in Spain	JF330376
BGSC 4BL1	<i>muju</i>	49	Plant, leaves, Isolated in Argentina	JF330377
BGSC 4BM1	<i>navarrensis</i>	50	Soil	JX162617
BGSC 4BN1	<i>xiaguangiensis</i>	51	Food, beans	JX162620
BGSC 4BP1	<i>kim</i>	52	Soil, sesame field	JX162611
BGSC 4BQ1	<i>asturiensis</i>	53	Soil, Isolated in Spain	JF330378
BGSC 4BR1	<i>poloniensis</i>	54	Animal, insect	JX162613
BGSC 4BS1	<i>palmanyolensis</i>	55	Soil	JX162619
BGSC 4BT1	<i>rongseni</i>	56	Soil, red soil, Isolated in China	JF330379
BGSC 4BU1	<i>pirenaica</i>	57	Dust, Isolated in Spain	JF330380
BGSC 4BV1	<i>argentiniensis</i>	58	Isolated in Argentina	JF330381
BGSC 4BW1	<i>iberica</i>	59	Isolated in Spain	JF330390
BGSC 4BX1	<i>pingluonsis</i>	60	Sandy soil, Isolated in China	JF330395
BGSC 4BY1	<i>sylvestriensis</i>	61	Plant, Scotch pine,	JF330382
BGSC 4BZ1	<i>zhaodongensis</i>	62	Soil, black soil, Isolated in China	JF330383
T63001	<i>azorensis</i>	63	-	JF330384
BGSC 4CB1	<i>pulsiensis</i>	64	Soil, Isolated in Azores	JF330385
BGSC 4CD1	<i>graciosensis</i>	66	Soil, Isolated in Azores	JF330386
BGSC 4CE1	<i>vazensis</i>	67	Soil, Isolated in Azores	JF330387
T68001	<i>thailandensis</i>	68	-	JF330391
T69001	<i>pahagni</i>	69	-	JF330388
T70001	<i>sinensis</i>	70	-	JF330392
BGSC 4T1	<i>wuhanensis</i>	H0	Isolated in China	JF330396
C-15	-	H-	Isolated by our team	JF330400

^a: unknown source

H-: unknown H-antigen