Table S1. Origin and Sample Type of Native *Bacillus* and Actinomycete Isolates from Potato in Peru.

Actinomycete strain code	Zones (Department)	Sample Type	Bacillus strain code	Zones	Sample Type
ACPP1	Huancavelica	Leaves	BPP1	Huancavelica	Leaves
ACPP2	Huancavelica	Leaves	BPP2	Huancavelica	Leaves
ACPP3	Huancavelica	Leaves	BPP3	Huancavelica	Leaves
ACPP4	Huancavelica	Leaves	BPP4	Huancavelica	Leaves
ACPP5	Huancavelica	Soil	BPP5	Huancavelica	Leaves
ACPP6	Huancavelica	Soil	BPP6	Huancavelica	Leaves
ACPP7	Huancavelica	Soil	BPP7	Huancavelica	Leaves
ACPP8	Huancavelica	Soil	BPP8	Huancavelica	Leaves
2ACPP1	Huánuco	Soil	2BPP1	Huánuco	Leaves
2ACPP2	Huánuco	Soil	2BPP2	Huánuco	Leaves
2ACPP3	Huánuco	Soil	2BPP3	Huánuco	Leaves
2ACPP4	Huánuco	Leaves	2BPP4	Huánuco	Leaves
2ACPP5	Huánuco	Leaves	2BPP5	Huánuco	Leaves
2ACPP6	Huánuco	Leaves	2BPP6	Huánuco	Leaves
2ACPP7	Huánuco	Soil	2BPP7	Huánuco	Leaves
2ACPP8	Huánuco	Soil	2BPP8	Huánuco	Leaves
3ACPP1	Cajamarca	Soil	3BPP1	Cajamarca	Leaves
3ACPP2	Cajamarca	Soil	3BPP2	Cajamarca	Leaves
3ACPP3	Cajamarca	Soil	3BPP3	Cajamarca	Leaves
3ACPP4	Cajamarca	Soil	3BPP4	Cajamarca	Leaves
3ACPP5	Cajamarca	Soil	3BPP5	Cajamarca	Leaves
3ACPP6	Cajamarca	Soil	3BPP6	Cajamarca	Leaves
3ACPP7	Cajamarca	Soil	3BPP07	Cajamarca	Leaves
3ACPP8	Cajamarca	Soil	3BPP08	Cajamarca	Leaves
4ACPP1	Lima	Soil	4BPP01	Lima	Leaves
4ACPP2	Lima	Soil	4BPP02	Lima	Leaves
4ACPP3	Lima	Soil	4BPP03	Lima	Leaves
4ACPP4	Lima	Soil	4BPP04	Lima	Leaves
4ACPP5	Lima	Soil	4BPP05	Lima	Leaves
4ACPP6	Lima	Soil	4BPP06	Lima	Leaves
4ACPP7	Lima	Soil	4BPP07	Lima	Leaves
4ACPP8	Lima	Soil	4BPP08	Lima	Leaves
5ACPP1	Puno	Soil	-	-	-
5ACPP2	Puno	Soil	-	-	-
5ACPP3	Puno	Soil	-	-	-
5ACPP4	Puno	Soil	-	-	-
5ACPP5	Puno	Soil	-	-	-
5ACPP6	Puno	Soil	-	-	-
5ACPP7	Puno	Soil	-	-	-

Table S2. Molecular identification of isolated strains.

Strains	Species	GENBANK accession	Percent identity (%)
BPP4	*Bacillus halotolerans*	NR_115931.1	100.00
2BPP8	*Paenibacillus terrae*	NR_025170.1	99.36
3BPP7	*Bacillus halotolerans*	NR_115930.1	100.00
4BPP4	*Bacillus halotolerans*	NR_115929.1	100.00
4BPP6	*Bacillus pumilus*	NR_115334.1	99.85
4BPP8	*Bacillus stercoris*	NR_181952.1	99.70
ACPP2	*Massilia timonae*	NR_026014.1	99.69
ACPP3	*Streptomyces sampsonii*	NR_025870.2	99.33
2ACPP2	*Streptomyces cyaneus*	NR_114820.1	100.00
2ACPP4	*Streptomyces paludis*	NR_170483.1	99.39
2ACPP8	*Streptomyces scopuliridis*	NR_116098.1	100.00
3ACPP3	*Streptomyces humidus*	NR_112316.1	99.68
4ACPP7	*Streptomyces nigra*	NR_181028.1	96.81
5ACPP5	*Streptomyces decoyicus*	NR_043374.1	99.85
5ACPP6	*Streptomyces hundungensis*	NR_178491.1	99.08

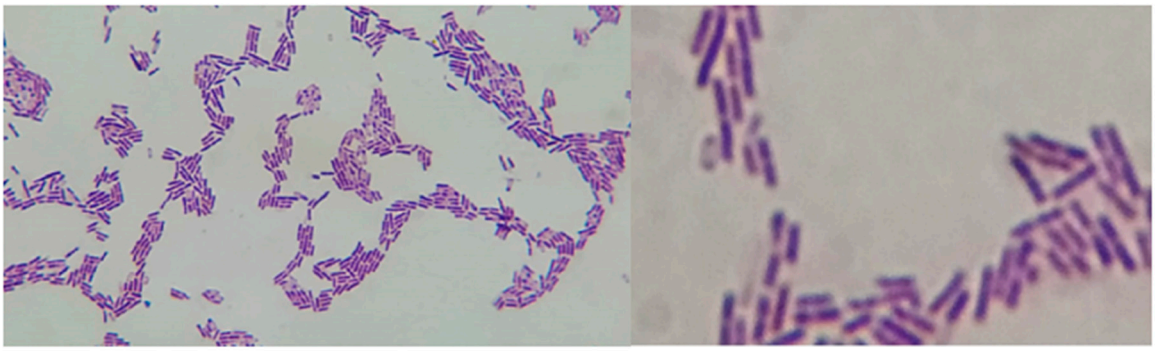


Figure S1. Gram staining of strain BPP4.

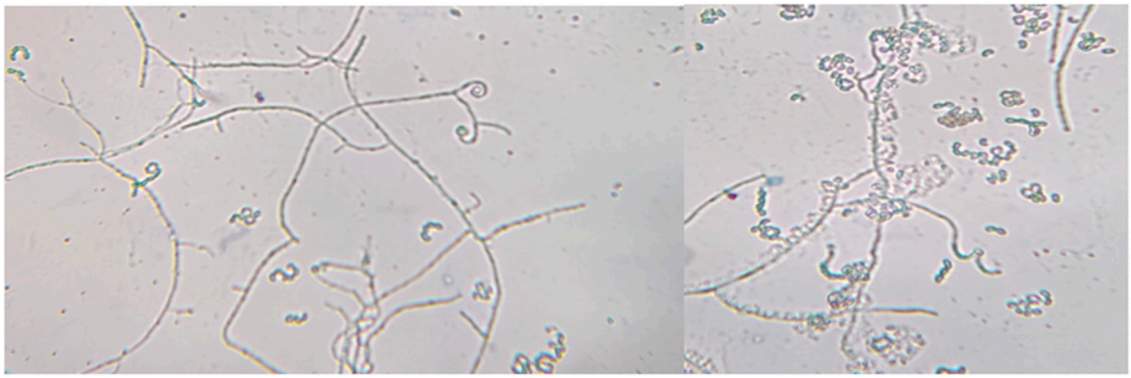


Figure S2. Microculture microscopy of strain 5ACPP5.



Figure S3. Canker stems observed on potato plants.

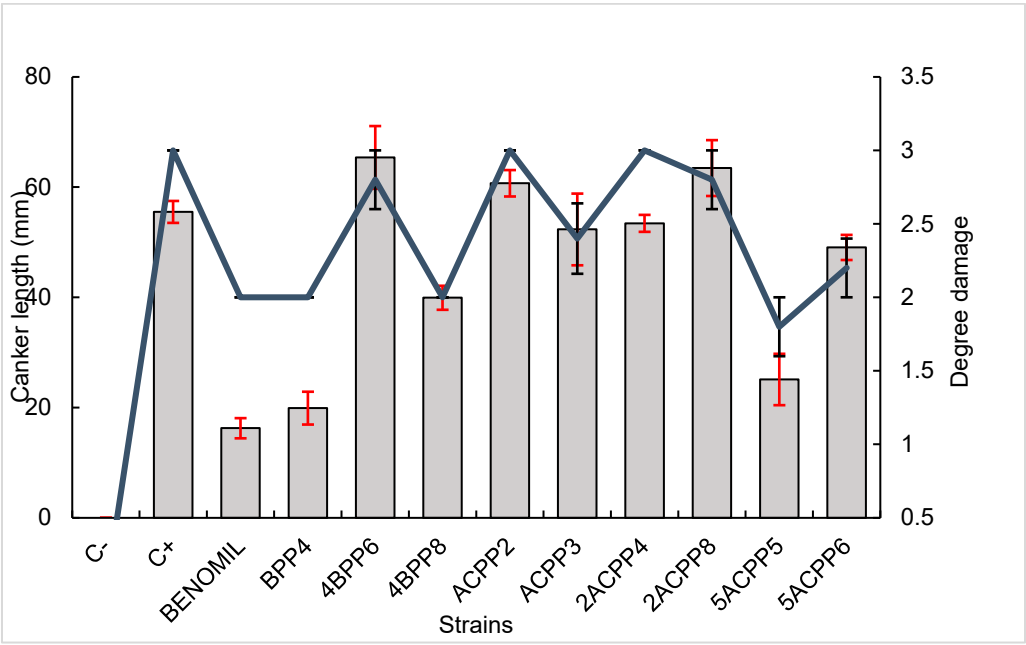


Figure S4. Canker length and degree of damage on potato plant stems.