

Supplementary Table 1. Biochemical characterization of *Bacillus cytotoxicus* strains isolated from Domuyo geothermal area in Neuquén province, Argentina.

Isolate	Catalase	Cytochrome Oxidase	Glucose	Lactose	H ₂ S production	Gas production	Nitrate reduction	Mannitol	Gelatin hydrolysis	Citrate	Methyl Red	Voges-Proskauer	Salt (g.L ⁻¹)	Phylogenetic affiliation	NCBI Acc. Number
LT-1	+	+	+	+	-	-	+	-	+	-	+	-	25 - 100	<i>Bacillus cytotoxicus</i>	KR559937
Oll-15	+	+	+	+	-	-	+	-	+	-	+	-	25 - 100	<i>Bacillus cytotoxicus</i>	KR559942
Oll-16	+	+	+	+	-	-	+	-	+	-	+	-	25 - 100	<i>Bacillus cytotoxicus</i>	KY559288
Oll-18	+	+	+	-	-	-	+	-	+	-	+	-	25 - 100	<i>Bacillus cytotoxicus</i>	KR559943
Oll-30	+	+	+	+	-	-	+	-	+	-	+	-	25 - 100	<i>Bacillus cytotoxicus</i>	KR559949
LT-32	+	+	+	-	-	-	+	-	+	-	+	-	25 – 50	<i>Bacillus cytotoxicus</i>	KR559950
LT-34	+	+	+	-	-	-	+	-	+	-	+	-	25 - 50	<i>Bacillus cytotoxicus</i>	KR559952
LT-35	+	+	+	-	-	-	+	-	+	-	+	-	25 – 75	<i>Bacillus cytotoxicus</i>	KR559953

Supplementary Table 2. Enzymatic activity profile of the isolates. Enzymatic activities were tested at 50°C, + indicates activity at 24 hours (otherwise indicated), - indicates no activity after 5 days. The last column indicates the accession number of each 16S rRNA gene sequence in the NCBI Data base

Isolate	Enzymatic activity								Phylogenetic affiliation	NCBI Acc. Number
	keratinases	proteases	estearases	amylases	cellulases	inulinases	pectinases	xylanases		
LT-1	+	+	-	-	-	-	+	-	<i>Bacillus cytotoxicus</i>	KR559937
Oll-15	+	+	-	-	+	-	+	-	<i>Bacillus cytotoxicus</i>	KR559942
Oll-16	+	+	-	+	-	-	+	-	<i>Bacillus cytotoxicus</i>	KY559288
Oll-18	+	+	-	-	-	-	-	-	<i>Bacillus cytotoxicus</i>	KR559943
Oll-30	72 hs	+	-	-	-	-	-	-	<i>Bacillus cytotoxicus</i>	KR559949
LT-32	72 hs	+	-	-	-	-	-	-	<i>Bacillus cytotoxicus</i>	KR559950
LT-34	+	+	-	-	-	-	-	-	<i>Bacillus cytotoxicus</i>	KR559952
LT-35	+	+	-	-	-	-	-	-	<i>Bacillus cytotoxicus</i>	KR559953