

Table S1. Phenotypic and biochemical characteristics of cypermethrin-degrading and biosurfactant-producing bacterial strains isolated from Northern Chilean Patagonia.

Strain	MS1	MS4	MS8	MS10	MS11	MS12	MS13**	MS14	MS15a**	MS16**	MS19**
Gram stain	+	-	-	-	+	+	+	+	-	+	-
Cell morphology	cocci	bacilli	rod	rod	bacilli	bacilli	rod	rod	bacilli	bacilli	bacilli
Motility	-	+	+	+	-	-	-	-	+	-	+
Catalase	+	+	+	+	+	+	+	+	+	+	+
Cypermethrin* growth 50 mg L⁻¹ (OD600 nm)	+	+	+	+	+	+	+++	+	+++	+++	+++
E₂₄ (%)*	12	94	76	32	24	82	77	38	60	79	71

* Cells grown on TSA at 28 °C for 24 h.

** strains selected for genomic analysis.

Table S2. Identification by comparative sequence analyses of cypermethrin-degrading and biosurfactant-producing bacterial strains isolated from Northern Chilean Patagonia.

Strain	Accession number	Closest type strain (Accession N°)	Score (% Identity)
MS1	MK271075	<i>Rhodococcus erythropolis</i> ATCC 4277 (AY281111.1)	435/436 (98)
MS4	MK271077	<i>Serratia odorifera</i> DSM 4582 (NR_114578.1)	702/730 (96)

MS8	MK271079	<i>Pseudomonas oryzihabitans</i> LMG7040 (NR_117269.1)	729/733 (99)
MS10	MK271080	<i>Pseudomonas</i> sp. DSM 12280 (AM088476.1)	700/740 (95)
MS11	MK271081	<i>Rhodococcus globerulus</i> DSM 43954 (NR_026184.1)	716/718 (99)
MS12	MK271082	<i>Rhodococcus globerulus</i> DSM 43954 (NR_026184.1)	707/709 (99)
MS13	MK271083	<i>Rhodococcus</i> sp. DSM43943 (X80616.1)	702/720 (98)
MS14	MK271084	<i>Rhodococcus</i> sp. DSM43943 (X80616.1)	696/713 (98)
MS15	MK271085	<i>Pseudomonas</i> sp. DSM 12280 (AM088476.1)	703/742 (95)
MS16	MK271086	<i>Rhodococcus globerula</i> DSM 43954 (NR_026184.1)	704/706 (99)
MS19	MK271087	<i>Pseudomonas marincola</i> KMM 3042 (NR_041592.1)	707/711 (99)

M.S.: Marine Sediment