

Table S1: 16S gen amplification process by PCR to molecular identification of halophilic endophytic bacteria.

Stage	Time (seconds)	Temperature (°C)	Cycles
Initial denaturalization	300	94	1
Denaturalization	30	94	35
Alignment	30	48	35
Extension	150	72	35
Final extension	300	72	1
Maintenance		10	1

Table S2: Growth of 11 bacteria in the nutrient solubilization tests.

	P-Ca ₃ (PO ₄) ₂		P-(C ₆ H ₁₈ O ₂₄ P ₆)		Feldspate K		ZnO		MnO	
	0 M NaCl	2.5 M NaCl	0 M NaCl	2.5 M NaCl	0 M NaCl	2.5 M NaCl	0 M NaCl	2.5 M NaCl	0 M NaCl	2.5 M NaCl
1	0.50±0.02A	0.53±0.03a	0.61±0.01A	0.61±0.02a	0.55±0.02A	0.58±0.02a	0.52±0.02A	0.53±0.01a	0.60±0.02A	0.65±0.02a
2	0.56±0.02A	0.56±0.02a	0.59±0.01A	0.60±0.02a	0.58±0.02A	0.58±0.02a	0.50±0.01A	0.55±0.01a	0.62±0.02A	0.64±0.01a
3	0.52±0.02A	0.55±0.03a	0.59±0.02A	0.61±0.01a	0.56±0.01A	0.56±0.01a	0.50±0.01A	0.51±0.02a	0.58±0.02A	0.62±0.02a
4	0.52±0.03A	0.57±0.02a	0.57±0.02A	0.62±0.02a	0.58±0.03A	0.61±0.01a	0.51±0.01A	0.53±0.01a	0.63±0.01A	0.66±0.01a
5	0.52±0.02A	0.54±0.02a	0.56±0.02A	0.61±0.02a	0.52±0.02A	0.55±0.03a	0.51±0.01A	0.55±0.02a	0.61±0.03A	0.63±0.03a
6	0.53±0.02A	0.54±0.02a	0.60±0.02A	0.61±0.01a	0.55±0.02A	0.56±0.03a	0.51±0.01A	0.54±0.03a	0.61±0.01A	0.63±0.03a
7	0.51±0.01A	0.56±0.01a	0.60±0.01A	0.63±0.01a	0.58±0.01A	0.60±0.02a	0.53±0.01A	0.54±0.02a	0.64±0.02A	0.64±0.02a
8	0.50±0.02A	0.56±0.03a	0.60±0.01A	0.59±0.01a	0.54±0.01A	0.61±0.02a	0.50±0.01A	0.58±0.01a	0.60±0.02A	0.66±0.02a
9	0.53±0.03A	0.54±0.02a	0.62±0.03A	0.65±0.03a	0.56±0.02A	0.58±0.01a	0.52±0.01A	0.55±0.03a	0.62±0.02A	0.63±0.01a
10	0.54±0.02A	0.55±0.01a	0.59±0.02A	0.64±0.02a	0.52±0.02A	0.56±0.01a	0.53±0.02A	0.53±0.02a	0.66±0.02A	0.60±0.02a
11	0.51±0.01A	0.56±0.01a	0.59±0.01A	0.63±0.01a	0.56±0.02A	0.58±0.02a	0.52±0.01A	0.52±0.03a	0.61±0.01A	0.62±0.02a

Absorbance was used as indirect measure of bacterial growth. Similar capital letters show no statistical difference when comparing among bacterial growth at 0 M NaCl. Similar lowercase letter show no statistical difference when comparing among bacterial growth at 2.5 M NaCl.

Table S3: Compatibility among halophilic endophytic bacteria isolated from halophytes.

Bacteria/Bacteria	1	2	3	4	5	6	7	8	9	10	11
1		+	+	+	+	+	+	+	+	+	+
2	+		+	+	+	+	+	+	+	+	+
3	+	+		-	+	+	-	+	+	-	+
4	+	+	-		+	+	+	+	+	+	+
5	+	+	+	+		-	+	+	+	+	+
6	+	+	+	+	-		+	+	+	-	+
7	+	+	-	+	+	+		-	+	+	+
8	+	+	+	+	+	+	+		+	+	+
9	+	+	+	+	+	+	+	+		+	+
10	+	+	-	+	+	+	+	+	+		+
11	+	+	+	+	+	+	+	+	+	+	

+, - show compatibility or incompatibility among the 11 bacterial isolates, respectively.

Table S4: Eigenvalues, variance, and stronger variables from principal component analysis.

Biochemical trait	Eigenvalues	Variance (%)
Nitrogenase 2.5 M*	3.86	31.33
Phosphate from organic source	3.24	19.64
Fitase 2.5 M	2.86	16.45
Fructose 2.5 M	2.18	12.90
Potassium 2.5 M	1.18	10.56
Phosphate-from organic source 2.5 M	0.86	8.94
Zinc 2.5 M	0.50	7.52
Zinc	0.38	6.90
Siderophores 2.5 M	0.28	5.63
Siderophores	0.21	4.94
Indol Acetic Acid 2.5 M	0.19	4.63
Potassium	0.17	4.29
Citric acid 2.5 M	0.15	3.29
Citric acid	0.12	2.91
Phosphate from inorganic source 2.5 M	0.10	2.58
Phosphate from inorganic source	0.8	2.37
Indol Acetic Acid	0.4	2.27
Acid phosphatase	0.2	1.85
Exopolysaccharides 2.5 M	0.08	1.07
Exopolysaccharides	0.07	0.95
Nitrogenase	0.05	0.65

* Denote response in presence of NaCl

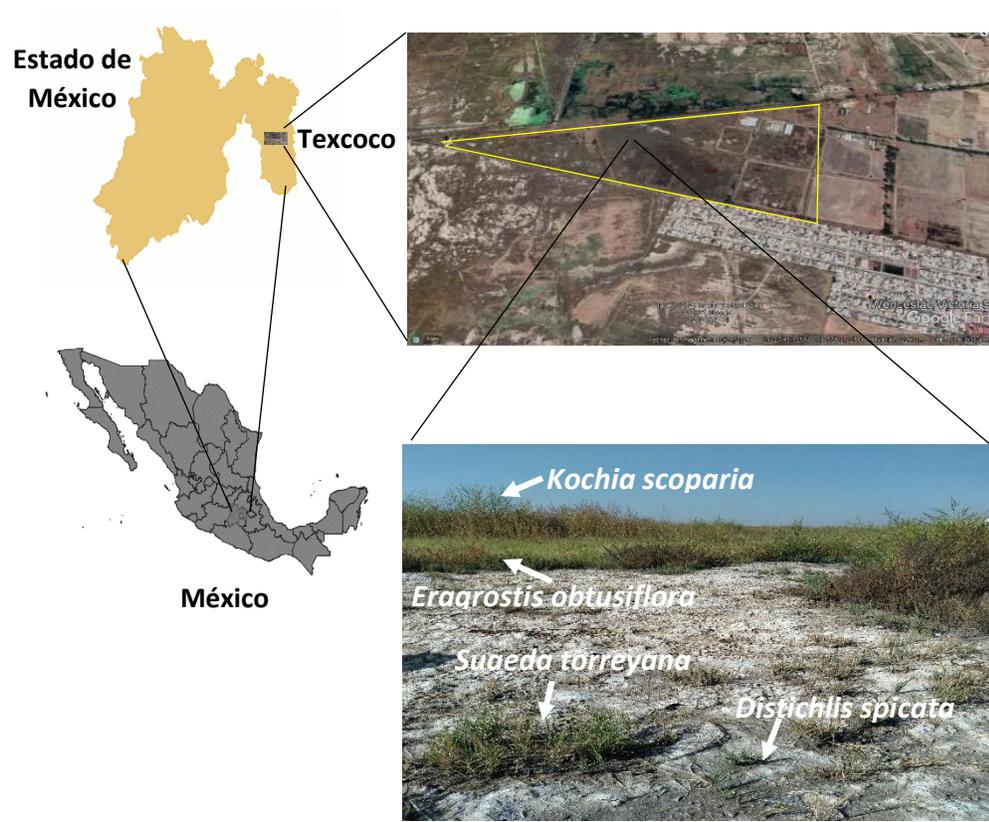


Figure S1: Location of sampling site to the isolation of endophytic bacteria from roots of six halophytes.

