Supplementary Table 1. Identification of bacterial strains detected from the surface

ID No.	Phylum	Family	*Species*	Place	Variable region	Identity %*	Accession #
6	Firmicutes	Staphylococcaceae	*Staphylococcus sp.*	DL	V1-V4	99	MK629793.1
7	Firmicutes	Bacillaceae	*Bacillus sp.*	DL	V1-V4	100	MK854859.1
8	Firmicutes	Bacillaceae	*Bacillus sp.*	DL	V1-V4	96	DQ084545.1
9	Firmicutes	Bacillaceae	*Bacillus sp.*	DL	V1-V4	98	MK721047.1
10	Actinobacteria	Micrococcaceae	*Arthrobacter sp.*	DL	V1-V4	99	KC764964.1
11	Firmicutes	Planococcaceae	*Planomicrobium sp.*	DL	V1-V4	99	KT767937.1
12	Firmicutes	Bacillaceae	*Bacillus sp.*	DL	V1-V4	100	MK823470.1
37	Firmicutes	Bacillaceae	*Bacillus sp.*	DL	V1-V4	100	KC236499.1
38	Firmicutes	Bacillaceae	*Bacillus sp.*	DL	V1-V4	97	JK411309.1
81	Actinobacteria	Micrococcaceae	*Kocuria sp.*	DL	V1-V4	99	KT758590.1
82	Firmicutes	Staphylococcaceae	*Staphylococcus sp.*	DL	V1-V4	100	MK841545.1
83	Actinobacteria	Micrococcaceae	*Arthrobacter sp.*	DL	V1-V4	100	FR877699.1
84	Firmicutes	Staphylococcaceae	*Staphylococcus sp.*	DL	V1-V4	99	KX510094.1
89	Firmicutes	Bacillaceae	*Bacillus sp.*	DL	V1-V4	100	MK955482.1
91	Firmicutes	Bacillaceae	*Bacillus sp.*	DL	V1-V4	94	MG011593.1
21	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	99	CP012600.1
22	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	99	MK791705.1
23	Actinobacteria	Streptomycetaceae	*Streptomyces sp.*	WA	V1-V4	99	HQ611063.1
25	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	99	MG470752.1
26	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	99	KJ831621.1
27	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	99	KY244042.1
28	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	99	MK468691.1
42	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	100	KT316407.1
43	Actinobacteria	Micrococcaceae	*Arthrobacter sp.*	WA	V1-V4	98	FR877695.1
100	Actinobacteria	Micrococcaceae	*Arthrobacter sp.*	WA	V1-V4	97	KC934755.1
101	Actinobacteria	Streptomycetaceae	*Streptomyces sp.*	WA	V1-V4	95	EU841657.1
102	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	99	MK823634.1
103	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	94	MH521185.1
104	Firmicutes	Planococcaceae	*Planococcus sp.*	WA	V1-V4	94	HQ202830.1
105	Firmicutes	Planococcaceae	*Planomicrobium sp.*	WA	V1-V4	99	JF411320.1
106	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	99	MK493750.1
107	Firmicutes	Planococcaceae	*Planomicrobium sp.*	WA	V1-V4	99	JF411320.1
108	Actinobacteria	Micrococcaceae	*Micrococcus sp.*	WA	V1-V4	88	MK883080.1
109	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	96	MK310269.1
110	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	90	MK559998.1
111	Firmicutes	Bacillaceae	*Bacillus sp.*	WA	V1-V4	97	CP035094.1
13	Firmicutes	Planococcaceae	*Planomicrobium sp.*	WE	V1-V4	87	HQ232419.1
14	Firmicutes	Bacillaceae	*Bacillus sp.*	WE	V1-V4	99	KY244042.1
15	Firmicutes	Bacillaceae	*Bacillus sp.*	WE	V1-V4	99	GQ903415.1
16	Firmicutes	Planococcaceae	*Planococcus sp.*	WE	V1-V4	98	MN305779.1
17	Firmicutes	Staphylococcaceae	*Staphylococcus sp.*	WE	V1-V4	99	MG162684.1
18	Firmicutes	Planococcaceae	*Planococcus sp.*	WE	V1-V4	99	MK123310.1
19	Actinobacteria	Streptomycetaceae	*Streptomyces sp.*	WE	V1-V4	99	MF077030.1
20	Actinobacteria	Streptomycetaceae	*Streptomyces sp.*	WE	V1-V4	99	KC336302.1
39	Firmicutes	Planococcaceae	*Planomicrobium sp.*	WE	V1-V4	99	JF411320.1
40	Actinobacteria	Brevibacteriaceae	*Brevibacterium sp.*	WE	V1-V4	90	LT838048.1
92	Firmicutes	Bacillaceae	*Bacillus sp.*	WE	V1-V4	99	KY548645.1
97	Actinobacteria	Streptomycetaceae	*Streptomyces sp.*	WE	V1-V4	99	EU841657.1
98	Firmicutes	Bacillaceae	*Bacillus sp.*	WE	V1-V4	98	KU180230.1
99	Firmicutes	Bacillaceae	*Bacillus sp.*	WE	V1-V4	100	MN004848.1
119	Firmicutes	Bacillaceae	*Bacillus sp.*	WE	V1-V4	92	MK675652.1
120	Actinobacteria	Streptomycetaceae	*Streptomyces sp.*	WE	V1-V4	94	NR112318.1
44	Firmicutes	Bacillaceae	*Bacillus sp.*	DS	V1-V4	99	MF177860.1
45	Actinobacteria	Micrococcaceae	*Arthrobacter sp.*	DS	V1-V4	99	AY561543.1
46	Firmicutes	Bacillaceae	*Bacillus sp.*	DS	V1-V4	100	KF876873.1
47	Firmicutes	Planococcaceae	*Planococcus sp.*	DS	V1-V4	98	HQ202830.1
48	Actinobacteria	Brevibacteriaceae	*Brevibacterium sp.*	DS	V1-V4	99	MF077182.1
113	Firmicutes	Bacillaceae	*Bacillus sp.*	DS	V1-V4	100	MT305985.1
114	Actinobacteria	Paenibacillaceae	*Brevibacillus sp.*	DS	V1-V4	99	KC146003.1
115	Firmicutes	Bacillaceae	*Bacillus sp.*	DS	V1-V4	99	MF041975.1
116	Firmicutes	Bacillaceae	*Bacillus sp.*	DS	V1-V4	98	JF411292.1
117	Firmicutes	Planococcaceae	*Planomicrobium sp.*	DS	V1-V4	89	JF411320.1
118	Firmicutes	Bacillaceae	*Bacillus sp.*	DS	V1-V4	96	MK883080.1
24	Actinobacteria	Streptomycetaceae	*Streptomyces sp.*	DS	V1-V4	99	MG597560.2
29	Actinobacteria	Streptomycetaceae	*Streptomyces sp.*	DS	V1-V4	92	MR_112318.1
30	Firmicutes	Bacillaceae	*Bacillus sp.*	DS	V1-V4	100	KT597531.1
31	Firmicutes	Bacillaceae	*Bacillus sp.*	DS	V1-V4	99	MK310269.1
32	Firmicutes	Bacillaceae	*Bacillus sp.*	DS	V1-V4	99	MK942693.1

*The results show homology with the matched Assession #

DL: Drylake bed, WA: Wadi, WE: Well, DS: Deseart Steppe