

Lichen	Code	Medium	Growth time	Macroscopic Description				Bioactive	Against	PCR 16S rRNA (27F-1492R)	Microorganism
				Color	Surface	Shape	Edge				
<i>Bacidia</i>	PN.F6.1	ISP2	24h	Orange	Smooth	Irregular	Irregular	Yes	<i>C. albicans</i>	Positive	Bacteria
	PN.F6.2	ISP2	3 Days	Beige	Rough	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.F6.3	DIFCO	24h	White	Smooth	Irregular	Irregular	Yes	<i>S. aureus, A. baumannii</i>	Positive	Bacteria
<i>Cladonia</i>	PN.F6.4	DIFCO	>5 Days	White	Smooth	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.C2	ISP2	>5 Days	White	Rough	Punctiform	Regular	No	NA	Positive	Bacteria
	PN.C2.0	ISP2	>5 Days	White	Rough	Circular	Regular	No	NA	Positive	Bacteria
	PN.C2.2	DIFCO	>5 Days	Beige	Rough	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.C2.3	ISP2	>5 Days	Pink	Smooth	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.C2.4	GAUSE	>5 Days	White	Smooth	Circular	Regular	No	NA	Positive	Bacteria
	PN.C2.5	ISP2	>5 Days	Beige	Rough	Circular	Regular	No	NA	Positive	Bacteria
	PN.D1.1	ISP2	>5 Days	Green	Smooth	Punctiform	Irregular	No	NA	Positive	Bacteria
	PN.D1.2	ISP2	>5 Days	Brown	Smooth	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.E1.1	DIFCO	>5 Days	Yellow	Smooth	Circular	Regular	No	NA	Positive	Bacteria
<i>Cora</i>	PN.E1.2	ISP2	>5 Days	Green	Smooth	Irregular	Regular	No	NA	Positive	Bacteria
	PN.F1.1	ISP2	72h	Yellow	Rough	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.F1.3	DIFCO	>5 Days	Pink	Rough	Punctiform	Regular	No	NA	Positive	Bacteria
	PN.F1.4	DIFCO	>5 Days	Pink	Rough	Irregular	Irregular	Yes	<i>A.baumannii</i>	Positive	Bacteria
	PN.F1.6	DIFCO	>5 Days	No color	Rough	Punctiform	Regular	No	NA	Positive	Bacteria
	PN.F1.9	GAUSE	>5 Days	White	Smooth	Irregular	Irregular	No	NA	Positive	Bacteria
<i>Hypotrachyna</i>	PN.C6.2	DIFCO	48h	White	Smooth	Irregular	Regular	No	NA	Positive	Bacteria
	PN.F3.1	ISP2	>5 Days	Beige	Smooth	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.F3.2	DIFCO	>5 Days	Pink	Rough	Punctiform	Regular	No	NA	Positive	Bacteria
<i>Peltigera</i>	PN.F4.1	ISP2	>5 Days	Orange	Rough	Punctiform	Irregular	No	NA	Positive	Bacteria
	PN.F4.10	DIFCO	>5 Days	White	Smooth	Punctiform	Regular	No	NA	Positive	Bacteria
	PN.F4.3	ISP2	>5 Days	Brown	Smooth	Irregular	Irregular	Yes	<i>S. aureus, C. albicans, P. aeruginosa</i>	Positive	Bacteria
	PN.F4.7	DIFCO	>5 Days	Beige	Smooth	Irregular	Irregular	Yes	<i>S. aureus, P. aeruginosa</i>	Positive	Bacteria
<i>Psoroma</i>	PN.F4.9	DIFCO	>5 Days	Orange	Smooth	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.C4.3	ISP2	>5 Days	White	Smooth	Punctiform	Irregular	Yes	<i>K. pneumoniae</i>	Positive	Bacteria
	PN.C4.4	DIFCO	>5 Days	Pink	Rough	Punctiform	Irregular	No	NA	Positive	Bacteria
<i>Stereocaulon</i>	PN.A3.1	DIFCO	>5 Days	White	Rough	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.A3.3	ISP2	>5 Days	Cream	Rough	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.A3.4	DIFCO	>5 Days	Yellow	Smooth	Punctiform	Regular	No	NA	Positive	Bacteria
	PN.A3.5	ISP2	>5 Days	Beige	Smooth	Punctiform	Regular	No	NA	Positive	Bacteria
	PN.B1.3	ISP2	>5 Days	Pink	Smooth	Punctiform	Irregular	No	NA	Positive	Bacteria
	PN.B1.4	ISP2	>5 Days	Yellow	Rough	Circular	Irregular	No	NA	Positive	Bacteria
	PN.D2.2	DIFCO	>5 Days	White	Smooth	Irregular	Irregular	No	NA	Positive	Bacteria
<i>Sticta</i>	PN.F5.2	DIFCO	>5 Days	White	Smooth	Punctiform	Irregular	Yes	<i>C.albicans, A. baumannii</i>	Positive	Bacteria
	PN.C3.1	ISP2	72h	Yellow	Rough	Punctiform	Irregular	Yes	<i>S. enterica, E.coli, P. aeuriginosa</i>	Positive	Bacteria
	PN.C3.2	DIFCO	>5 Days	Red	Smooth	Punctiform	Regular	Yes	<i>C. albicans</i>	Positive	Bacteria
	PN.C3.3	ISP2	48h	Beige	Rough	Circular	Regular	No	NA	Positive	Bacteria
	PN.D3.1	DIFCO	>5 Days	Red	Rough	Irregular	Regular	No	NA	Positive	Bacteria
	PN.D3.3	ISP2	>5 Days	Yellow	Smooth	Irregular	Irregular	No	NA	Positive	Bacteria
	PN.D3.4	DIFCO	>5 Days	Yellow	Smooth	Irregular	Irregular	No	NA	Positive	Bacteria
<i>Usnea</i>	PN.A2.1	DIFCO	>5 Days	Pink	Smooth	Punctiform	Irregular	No	NA	Positive	Bacteria
	PN.D4.1	ISP2	>5 Days	Beige	Rough	Circular	Regular	No	NA	Positive	Bacteria
	PN.D4.2	ISP2	>5 Days	White	Rough	Irregular	Regular	No	NA	Positive	Bacteria

ISP2: Streptomyces Project Medium-2
DIFCO: Actinomycete Isolation Agar
GAUSE: Gause Synthetic Agar

Description code name: PN
corresponds to Nevados Park; The
following letter represents the
sublocation point with the number of
lichen thalli; Following number
represents the numeration for the
isolate

Lichen	Code	Medium	Growth time	Macroscopic Description				Bioactive	Against	PCR 16S rRNA (27F-1492R)	PCR ITS (ITS4-ITS5)	Microorganism
				Color	Surface	Shape	Edge					
Cladonia	PC.L1.2	DIFCO		NA	NA	NA	NA	No	NA	Negative	Positive	Fungi
	PC.L1.3	DIFCO		NA	NA	NA	NA	No	NA	Negative	Positive	Fungi
	PC.A4.4	ISP2	4 Days	White	Rough	Irregular	Irregular	Yes	<i>S. aureus, A. baumannii</i>	Positive		Bacteria
	PC.A4.5	GAUSE		White	Rough	Circular	Irregular	Yes	<i>S. aureus, A. baumannii</i>	Positive		Bacteria
Yoshiuriella	PC.C1.1	ISP2		White	Rough	Circular	Irregular	Yes	<i>K. pneumoniae</i>	Positive		Bacteria
	PC.C1.7	GAUSE-O	>5 Days	White	Rough	Circular	Regular	No	NA	Positive		Bacteria
	PC.C1.8	GAUSE		NA	NA	NA	NA	No	NA	Positive		Bacteria
	PC.C1.9	GAUSE		NA	NA	NA	NA	No	NA	Negative	Positive	Fungi
	PC.D1.5	ISP2	4 Days	Yellow	Smooth	Punctiform	Regular	No	NA	Positive		Bacteria
	PC.D1.6	GAUSE-O	4 Days	White	Rough	Circular	Irregular	No	NA	Positive		Bacteria
	PC.D1.7	GAUSE		Cream	Rough	Circular	Regular	No	NA	Positive		Bacteria
	PC.D1.8	ISP2		NA	NA	NA	NA	Yes	<i>S. aureus, A. baumannii</i>	Positive		Bacteria
	PC.D1.10	GAUSE-O		White	Rough	Circular	Regular	No	NA	Positive		Bacteria
	PC.D1.11	DIFCO		Brown	Rough	Circular	Irregular	No	NA	Positive		Bacteria
Slicta	PC.E2.3	ISP2	>5 Days	White	Rough	Irregular	Irregular	No	NA	Positive		Bacteria
	PC.E2.4	ISP2	>5 Days	White	Rough	Irregular	Irregular	NA	NA	Positive		Bacteria
	PC.E2.5	ISP2		White	Rough	Circular	Irregular	No	NA	Positive		Bacteria
	PC.E2.6	ISP2		NA	NA	NA	NA	No	NA	Positive		Bacteria
	PC.E2.7	DIFCO		White	Rough	Circular	Irregular	Yes	<i>C. albicans</i>	Positive		Bacteria
	PC.E2.8	GAUSE		White	Rough	Punctiform	Irregular	No	NA	Positive		Bacteria
	PC.E2.9	GAUSE		White	Rough	Circular	Irregular	No	NA	Positive		Bacteria
	PC.A5.7	ISP2		Brown	Rough	Circular	Irregular	Yes	<i>S. aureus, A. baumannii</i>	Negative	Positive	Fungi
	PC.A5.8	ISP2		NA	NA	NA	NA	Yes	<i>S. aureus, A. baumannii</i>	Positive		Bacteria
	Lobariella*	PC.G1.1	DIFCO		NA	NA	NA	NA	No	NA	Negative	Positive
PC.G1.2		DIFCO		Black	Rough	Irregular	Irregular	No	NA	Negative	Positive	Fungi
PC.G1.4		DIFCO		NA	NA	NA	NA	No	NA	Positive		Bacteria
PC.B1.1		ISP2	>5 Days	Cream	Smooth	Circular	Regular	No	NA	Positive		Bacteria
PC.B1.2		DIFCO		NA	NA	NA	NA	No	NA	Positive		Bacteria
PC.G2.1		DIFCO		White	Rough	Circular	Irregular	Yes	<i>A.baumannii</i>	Positive		Bacteria
PC.G2.2		ISP2		Green	Smooth	Circular	Regular	No	NA	Positive		Bacteria
PC.G2.3		ISP2		Cream	Smooth	Irregular	Irregular	No	NA	Negative	Positive	Fungi
PC.H3.10		ISP2	4 Days	Brown	Rough	Irregular	Irregular	No	NA	Positive		Bacteria
PC.H3.11		ISP2	4 Days	Cream	Rough	Punctiform	Irregular	Yes	<i>S. aureus, A. baumannii, C. albicans</i>	NA		Bacteria
Hypotrachyna	PC.H3.12	ISP2		Yellow	Rough	Circular	Irregular	Yes	<i>S. aureus, A. baumannii</i>	Positive		Bacteria
	PC.H3.13	ISP2		Yellow	Smooth	Punctiform	Regular	Yes	<i>S. aureus, A. baumannii</i>	Positive		Bacteria
	PC.H3.6	DIFCO	4 Days	Brown	Rough	Circular	Irregular	No	NA	Positive		Bacteria
	PC.H3.7	GAUSE	4 Days	Brown	Rough	Irregular	Irregular	No	NA	Positive		Bacteria
	PC.H3.8	ISP2		Brown	Rough	Irregular	Irregular	No	NA	Positive		Bacteria
	PC.H3.9	ISP2	4 Days	White	Rough	Punctiform	Irregular	Yes	<i>C. albicans</i>	Positive		Bacteria
	PC.H3.14	DIFCO		Yellow	Rough	Circular	Irregular	Yes	<i>A.baumannii</i>	Positive		Bacteria
	PC.H3.15	DIFCO	>5 Days	White	Rough	Circular	Irregular	No	NA	Positive		Bacteria
	PC.H3.16	ISP2		Yellow	Rough	Circular	Irregular	Yes	<i>S. aureus, A. baumannii, C. albicans</i>	Positive		Bacteria
	PC.H3.17	GAUSE		Yellow	Rough	Punctiform	Irregular	Yes	<i>S. aureus, A. baumannii</i>	Positive		Bacteria
Cora	PC.H3.18	DIFCO		NA	NA	NA	NA	Yes	<i>S. aureus, A. baumannii</i>	Positive		Bacteria
	PC.H3.19	GAUSE-O		NA	NA	NA	NA	Yes	<i>S. aureus, A. baumannii, C. albicans, F. oxysporum</i>	Positive		Bacteria
	PC.N3.10	DIFCO	4 Days	Yellow	Smooth	Punctiform	Irregular	No	NA	Positive		Bacteria
	PC.H1.1	ISP2	>5 Days	Cream	Smooth	Irregular	Irregular	No	NA	Negative	Positive	Fungi
	PC.H2.1	DIFCO	>5 Days	Yellow	Rough	Punctiform	Irregular	Yes	<i>S. aureus</i>	Positive		Bacteria
	PC.H2.2	ISP2		Orange	Smooth	Irregular	Irregular	Yes	<i>S. aureus, A. baumannii</i>	Negative	Positive	Fungi
	PC.H2.3	ISP2		Cream	Smooth	Irregular	Irregular	No	NA	Positive		Bacteria
	PC.I1.1	DIFCO		White	Smooth	Punctiform	Regular	Yes	<i>C. albicans</i>	Positive		Bacteria
	PC.L2.1	GAUSE-O		NA	NA	NA	NA	Yes	<i>F. oxysporum</i>	Positive		Bacteria
	PC.A3.3	DIFCO	4 Days	White	Rough	Circular	Irregular	No	NA	Positive		Bacteria
Stereocaulon	PC.A3.4	ISP2		Cream	Smooth	Irregular	Irregular	No	NA	Positive		Bacteria
	PC.L3.2	ISP2		White	Rough	Irregular	Irregular	No	NA	Positive		Bacteria
	PC.L3.3	ISP2		White	Rough	Punctiform	Irregular	No	NA	Positive		Bacteria
	PC.L3.5	ISP2		White	Rough	Punctiform	Irregular	No	NA	Positive		Bacteria
	PC.L3.6	ISP2		White	Rough	Punctiform	Irregular	No	NA	Positive		Bacteria
	PC.L3.8	DIFCO		White	Rough	Circular	Regular	No	NA	Positive		Bacteria
	PC.L3.7	ISP2		White	Rough	Punctiform	Irregular	No	NA	Positive		Bacteria
	PC.L3.9	DIFCO		NA	NA	NA	NA	No	NA	Positive		Bacteria
	PC.L3.10	DIFCO		NA	NA	NA	NA	No	NA	Positive		Bacteria
	PC.A1.4	ISP2		Yellow	Smooth	Irregular	Irregular	No	NA	Positive		Bacteria
Peltigera	PC.N4.4	DIFCO	72h	White	Rough	Irregular	Irregular	Yes	<i>S. aureus</i>	Positive		Bacteria
	PC.N4.6	DIFCO		Cream	Rough	Irregular	Irregular	No	NA	Positive		Bacteria
	PC.N4.7	ISP2	48h	Cream	Rough	Punctiform	Irregular	No	NA	Positive		Bacteria
	PC.N4.8	DIFCO	72h	Cream	Rough	Punctiform	Irregular	Yes	<i>A.baumannii</i>	Positive		Bacteria
	PC.N4.9	ISP2	4 Days	White	Rough	Irregular	Irregular	No	NA	Positive		Bacteria
	PC.C3.17	GAUSE		Yellow	Rough	Punctiform	Irregular	No	NA	Positive		Bacteria
	PC.C3.18	ISP2	72h	Brown	Rough	Filamentous	Irregular	Yes	<i>S. aureus, C. albicans</i>	Negative	Positive	Fungi
	PC.C3.19	GAUSE-O		White	Rough	Circular	Irregular	No	NA	Positive		Bacteria
	PC.C3.20	DIFCO		Pink	Rough	Irregular	Irregular	Yes	<i>S. aureus, A. baumannii</i>	Positive		Bacteria
	PC.C3.21	DIFCO		Yellow	Rough	Punctiform	Irregular	Yes	<i>S. aureus, A. baumannii, C. albicans</i>	Positive		Bacteria
PC.C3.24	Difco (G)		White	Rough	Punctiform	Irregular	No	NA	Positive		Bacteria	
PC.C3.25	GAUSE		NA	NA	NA	NA	No	NA	Positive		Bacteria	

*Due to small amount of lichen thalli, the sample genera could not be thoroughly corroborate

DIFCO: Actinomyces Isolation Agar
GAUSE: Gause Synthetic Agar
GAUSE-O: Gause Oligotrophic Agar
ISP2: Streptomyces Project Medium-2

Description code name: PC
corresponds to Chingaza Park; The following letter represents the subcollection point with the number of lichen thalli; Following number represents the numeration for the isolate