

Table S1. Inhibitory zones determined (size in mm) from the antimicrobial activity of Lichen samples, *Usnea longissima*

S1 (i) Antimicrobial activity in 2.5 mg/ml extract of *Usnea longissima*

S. No.	Pathogens (Bacteria/fungi)	Inhibitory zone (in mm) in 2.5 mg solution of lichen extract and solvent				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	14	15	14	14	14
2.	<i>Agrobacterium tumefaciens</i>	23	20	21	16	16
3.	<i>Staphylococcus aureus</i>	24	25	23	20	20
4.	<i>Escherichia coli</i>	27	27	21	24	24
5.	<i>Streptococcus mutans</i>	00	00	00	00	00
6.	<i>Aspergillus niger</i>	00	00	00	00	00
7.	<i>Candida albicans</i>	12	12	00	10	10
8.	<i>Fusarium oxysporum</i>	12	12	00	00	00

S1 (ii) Antimicrobial activity in 05 mg/ml extract of *Usnea longissima*

S. No.	Pathogens (Bacteria/fungi)	Inhibitory zone (in mm) in 05 mg solution of lichen extract and solvent				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	14	15	00	14	14
2.	<i>Agrobacterium tumefaciens</i>	25	24	22	12	12
3.	<i>Staphylococcus aureus</i>	27	26	24	12	12
4.	<i>Escherichia coli</i>	28	29	22	24	24
5.	<i>Streptococcus mutans</i>	12	14	12	12	12
6.	<i>Aspergillus niger</i>	12	12	10	10	10
7.	<i>Candida albicans</i>	14	14	12	14	14
8.	<i>Fusarium oxysporum</i>	12	14	12	12	12

S1 (iii) Antimicrobial activity in 10 mg/ml extract of *Usnea longissima*

S. No.	Pathogens (Bacteria/fungi)	Inhibitory zone (in mm) in 10 mg solution of lichen extract and solvent				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	15	16	16	15	16
2.	<i>Agrobacterium tumefaciens</i>	21	22	25	20	21
3.	<i>Staphylococcus aureus</i>	30	27	25	23	21
4.	<i>Escherichia coli</i>	32	30	27	25	26
5.	<i>Streptococcus mutans</i>	12	10	12	12	12
6.	<i>Aspergillus niger</i>	14	10	10	12	14
7.	<i>Candida albicans</i>	14	14	12	14	14
8.	<i>Fusarium oxysporum</i>	14	14	12	10	00

S1 (iv) Antimicrobial activity in 15 mg/ml extract of *Usnea longissima*

S. No.	Pathogens (Bacteria/fungi)	Inhibitory zone (in mm) in 15 mg solution of lichen extract and solvent				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	16	15	15	14	14
2.	<i>Agrobacterium tumefaciens</i>	25	23	22	21	21
3.	<i>Staphylococcus aureus</i>	28	27	25	23	21
4.	<i>Escherichia coli</i>	34	30	25	24	25
5.	<i>Streptococcus mutans</i>	12	27	24	25	14
6.	<i>Aspergillus niger</i>	12	10	10	10	00
7.	<i>Candida albicans</i>	14	14	15	15	14
8.	<i>Fusarium oxysporum</i>	14	12	12	12	00

S1 (v) Antimicrobial activity in 20 mg/ml extract of *Usnea longissima*

S. No.	Pathogens (Bacteria/fungi)	Inhibitory zone (in mm) in 20 mg solution of lichen extract and solvent				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	16	15	14	14	15
2.	<i>Agrobacterium tumefaciens</i>	24	22	23	21	18
3.	<i>Staphylococcus aureus</i>	28	27	25	24	25
4.	<i>Escherichia coli</i>	34	32	28	26	28
5.	<i>Streptococcus mutans</i>	14	15	12	12	10
6.	<i>Aspergillus niger</i>	14	12	12	12	00
7.	<i>Candida albicans</i>	15	16	12	14	10
8.	<i>Fusarium oxysporum</i>	14	12	12	10	12

Table S2. Inhibitory zones determined (size in mm) from the antimicrobial activity of Lichen samples, *Cetrelia braunsiana*

S2 (i) Antimicrobial activity in 2.5 mg/ml extract of *Cetrelia braunsiana*

S. No.	Pathogens (Bacteria/fungi)	Inhibitory zone (in mm) in 2.5 mg solution of lichen extract and solvent				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	00	00	00	00	12
2.	<i>Agrobacterium tumefaciens</i>	00	00	00	00	15
3.	<i>Staphylococcus aureus</i>	16	20	12	15	25
4.	<i>Escherichia coli</i>	18	20	12	16	24
5.	<i>Streptococcus mutans</i>	16	20	14	16	18
6.	<i>Aspergillus niger</i>	00	00	00	00	10
7.	<i>Candida albicans</i>	00	00	00	00	10
8.	<i>Fusarium oxysporum</i>	12	14	12	12	12

S2 (ii) Antimicrobial activity in 05mg/ml extract of *Cetrelia braunsiana*

S. No.	Pathogens (Bacteria/fungi)	Inhibitory zone (in mm) in 05 mg solution of lichen extract and solvent				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	00	00	00	00	14
2.	<i>Agrobacterium tumefaciens</i>	00	00	00	00	15
3.	<i>Staphylococcus aureus</i>	20	22	18	20	22
4.	<i>Escherichia coli</i>	18	20	16	15	22
5.	<i>Streptococcus mutans</i>	16	20	14	16	16
6.	<i>Aspergillus niger</i>	00	00	00	00	14
7.	<i>Candida albicans</i>	14	16	18	14	14
8.	<i>Fusarium oxysporum</i>	14	18	12	12	12

S2 (iii) Antimicrobial activity in 10mg/ml extract of *Cetrelia braunsiana*

S. No.	Pathogens (Bacteria/fungi)	Solvents				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	00	00	00	00	15
2.	<i>Agrobacterium tumefaciens</i>	15	16	14	12	16
3.	<i>Staphylococcus aureus</i>	20	22	20	18	20
4.	<i>Escherichia coli</i>	22	20	18	16	22
5.	<i>Streptococcus mutans</i>	16	20	14	14	14
6.	<i>Aspergillus niger</i>	12	12	10	10	10
7.	<i>Candida albicans</i>	22	24	22	24	12
8.	<i>Fusarium oxysporum</i>	16	18	14	12	12

S2 (iv) Antimicrobial activity in 15mg/ml extract of *Cetrelia braunsiana*

S. No.	Pathogens (Bacteria/fungi)	Inhibitory zone (in mm) in 15 mg solution of lichen extract and solvent				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	00	00	00	00	15
2.	<i>Agrobacterium tumefaciens</i>	20	25	18	16	20
3.	<i>Staphylococcus aureus</i>	25	24	22	20	14
4.	<i>Escherichia coli</i>	22	20	18	18	24
5.	<i>Streptococcus mutans</i>	20	18	16	14	14
6.	<i>Aspergillus niger</i>	14	14	12	12	12
7.	<i>Candida albicans</i>	24	25	16	20	16
8.	<i>Fusarium oxysporum</i>	20	18	16	14	14

S2 (v) Antimicrobial activity in 20mg/ml extract of *Cetrelia braunsiana*

S. No.	Pathogens (Bacteria/fungi)	Inhibitory zone (in mm) in 20 mg solution of lichen extract and solvent				
		Methanol	Ethanol	Ethyl Acetate	Acetone	Control
1.	<i>Pseudomonas aeruginosa</i>	00	00	00	00	15
2.	<i>Agrobacterium tumefaciens</i>	20	25	18	16	20
3.	<i>Staphylococcus aureus</i>	25	24	22	20	24
4.	<i>Escherichia coli</i>	22	20	20	18	22
5.	<i>Streptococcus mutans</i>	20	18	16	15	15
6.	<i>Aspergillus niger</i>	14	16	12	12	12
7.	<i>Candida albicans</i>	25	30	28	27	14
8.	<i>Fusarium oxysporum</i>	22	25	24	22	12