

Appendix A: Supplementary data

Supplementary Table S1. List of Gram-negative bacteria used for activity studies.

Gram-negative bacteria		
S/No	Bacteria	Information
1	<i>Escherichia coli</i> ATCC25922	
2	<i>Escherichia coli</i> JEO3414	Dog
3	<i>Escherichia coli</i> JEO5578	Cow
4	<i>Escherichia coli</i> JEO3332	Avian
5	<i>Escherichia coli</i> JEO5215	Human
6	<i>Escherichia coli</i>	Cow milk
7	<i>Escherichia coli</i> -17EC1	Blood culture from dialysed patient
8	<i>Escherichia coli</i> -13EC2	Blood culture from dialysed patient
9	<i>Escherichia coli</i> -23EC3	Blood culture from dialysed patient
10	<i>Escherichia coli</i> 622	Serotype O8
11	<i>Escherichia coli</i> 632	Serotype O78
12	<i>Escherichia coli</i> 729	Serotype O149
13	<i>Escherichia coli</i> U1 802	
14	<i>Escherichia coli</i> 873	Serotype O149
15	<i>Escherichia coli</i> 877	O157:H11 ATCC 35150
16	<i>Klebsiella pneumoniae</i> ATCC700603	
17	<i>Klebsiella pneumoniae</i> JEO1367	
18	<i>Klebsiella pneumoniae</i> JEO867	
19	<i>Klebsiella pneumoniae</i> JEO5540	
20	<i>Klebsiella pneumoniae</i> JEO5550	
21	<i>Klebsiella pneumoniae</i> JEO5560	
22	<i>Klebsiella pneumoniae</i> JEO5570	
23	<i>Klebsiella</i> spp.	Avian
24	<i>Klebsiella</i> spp.	Milk
25	<i>Klebsiella</i> spp-16KB1	Blood culture from dialysed patient
26	<i>Klebsiella</i> spp.- 15KB3	Blood culture from dialysed patient
27	<i>Klebsiella pneumoniae</i> 760	
28	<i>Klebsiella pneumoniae</i> 5547	103
29	<i>Pseudomonas aeruginosa</i> ATCC27853	
30	<i>Pseudomonas aeruginosa</i> 29582-2-2	Dog
31	<i>Pseudomonas aeruginosa</i> 29570-2-1	Dog
32	<i>Pseudomonas aeruginosa</i> C-29243-2	Dog
33	<i>Pseudomonas aeruginosa</i> C-29264-1	Dog
34	<i>Pseudomonas aeruginosa</i> 29405-2	Dog
35	<i>Pseudomonas aeruginosa</i> 29569	Dog
36	<i>Pseudomonas aeruginosa</i> -19PA1	Blood culture from dialysed patient
37	<i>Pseudomonas aeruginosa</i> - 14PA2	Blood culture from dialysed patient

Gram-negative bacteria

S/No	Bacteria	Information
38	<i>Pseudomonas aeruginosa</i> - 25PA3	Blood culture from dialysed patient
39	<i>Pseudomonas aeruginosa</i> 763	
40	<i>Shigella sonnei</i> 759	
41	<i>Shigella</i> serogroup ABC 772	
42	<i>Shigella sonei</i> 866	F306
43	<i>Shigella sonnei</i> 2465	
44	<i>Yersinia enterocolitica</i> 761	
45	<i>Yersinia enterocolitica</i> 762	
46	<i>Salmomella typhi</i> ATCC	
47	<i>Salmonella paratyphi</i> JEO189	
48	<i>Salmomella enterimidis</i> JEO562	
49	<i>Salmonella typhimurium</i> JEO53	
50	<i>Salmonella typhimurium</i> JEO26	
51	<i>Salmonella</i> 2461	
52	<i>Salmonella galinarum</i>	Chicken Egg
53	<i>Salmonella galinarum</i>	Avian
54	<i>Salmonella galinarum</i>	Avian
55	<i>Salmonela typhi</i> JEO72	Faecal from slaughter
56	<i>Salmonella typhi</i> JEO94	Faecal from slaughter
57	<i>Salmonella typhi</i> JEO 148	Faecal from slaughter

Supplementary Table S2. List of Gram positive-bacteria used for activity studies.

Gram-positive bacteria

S/No	Bacteria	Other information
1	<i>Staphylococcus aureus</i> ATCC25923	
2	<i>Staphylococcus aureus</i> PIL81	Porcine
3	<i>Staphylococcus aureus</i> PIL51	Human
4	<i>Staphylococcus aureus</i> PIL80	Porcine
5	<i>Staphylococcus aureus</i> PIL41	Human
6	<i>Staphylococcus aureus</i> PIL22	Human
7	<i>Staphylococcus aureus</i> PIL50	Human
8	<i>Staphylococcus aureus</i> PIL47	Human
9	<i>Staphylococcus aureus</i> -24SA1B	Human
10	<i>Staphylococcus aureus</i> -23SA2B	Human
11	<i>Staphylococcus aureus</i> -22SA3B	Human
12	<i>Staph negative coagulant</i> -27SN1	Human
13	<i>Staph negative coagulant</i> - 26SSN2	Human

Gram-positive bacteria

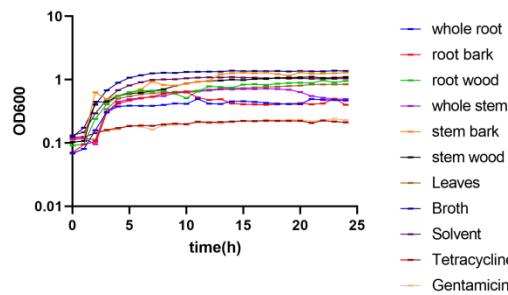
S/No	Bacteria	Other information
14	<i>Staph negative coagulant- 13SN3</i>	Human
15	<i>Staphylococcus aureus- 176SAN</i>	Human
16	<i>Staphylococcus aureus -100SA5N</i>	Human
17	<i>Staphylococcus aureus 4516</i>	JTR229
18	<i>Staphylococcus aureus 4614</i>	Mille7
19	<i>Staphylococcus aureus 4598</i>	RN4220
20	Methicillin-resistant <i>Staphylococcus aureus</i>	CC398
21	Methicillin-resistant <i>Staphylococcus aureus</i>	JE2
22	<i>Enterococci faecalis</i>	
23	<i>Enterococcus faecium 4976</i>	ATCC51559
24	<i>Enterococci JEO 4518</i>	
25	<i>Enterococci JEO4519</i>	
26	<i>Enterococci JEO4393</i>	
27	<i>Enterococci JEO5552</i>	
28	<i>Enterococci JEO4422</i>	
29	<i>Enterococcus faecalis 4351</i>	20294
30	<i>Enterococcus faecalis 4352</i>	20294
31	<i>Enterococcus faecium 4519</i>	JTR254
32	<i>Streptococcus epidemicus 4731</i>	
33	<i>Streptococcus pyogenes</i>	Goat
34	<i>Streptococcus pyogenes</i>	Milk
35	<i>Streptococcus pyogenes</i>	Milk
36	<i>Streptococcus uberis 1603</i>	ATCC854
37	<i>Streptococcus agalactiae 1605</i>	ATCC12403
38	<i>Streptococcus suis 4514</i>	JTR213

Supplementary table S3. List of 42 extracts prepared in this study

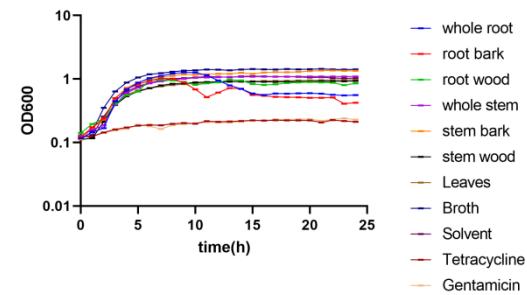
Plant name	Part of the plant	Hot method of extraction		Cold method of extraction	
		Total-Soxlet	Boiling	Total	Sequential
<i>C. swynnertonii</i>	Whole root	D	Water	H, D, M	Methanol
	Root bark	D	Water	H, D, M	Methanol
	Root wood	D	Water	H, D, M	Methanol
	Whole stem	D	Water	H, D, M	Methanol
	Stem bark	D	Water	H, D, M	Methanol
	Stem wood	D	Water	H, D, M	Methanol
	Leaves	D	Water	H, D, M	Methanol

Key: Solvents H- Hexane, D- Dichloromethane, M- Methanol

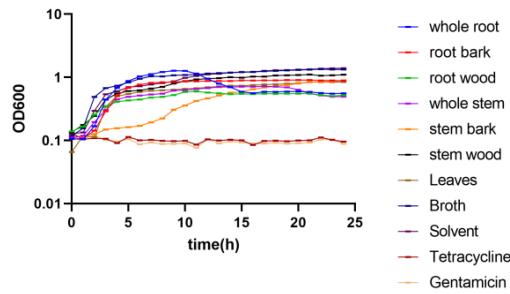
A *S. aureus* treated with 1500 µg/mL of cold-total hexane extracts



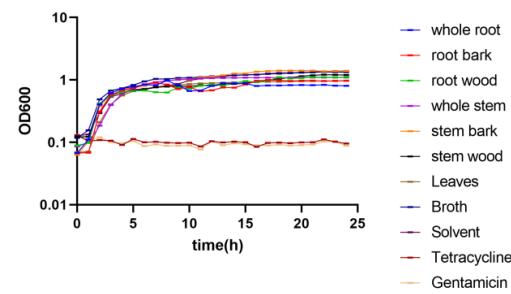
B *S. aureus* treated with 150 µg/mL of cold-total hexane extracts



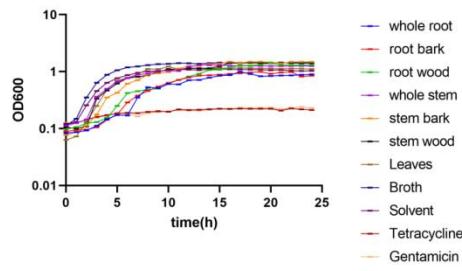
C *E. coli* treated with 1500 µg/mL of cold-total hexane extracts



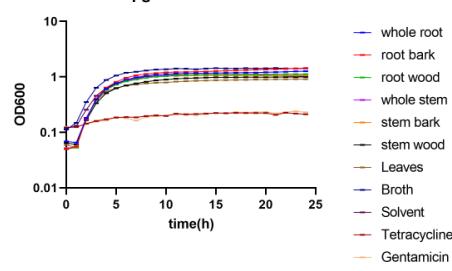
D *E. coli* treated with 150 µg/mL of cold-total hexane extract



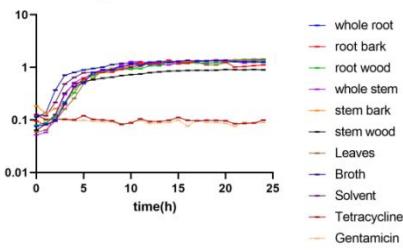
E *S. aureus* treated with 1500 µg/mL of cold-total dichloromethane extracts



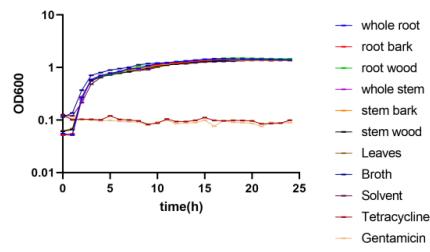
F *S. aureus* treated with 150 µg/mL of cold-total dichloromethane extracts

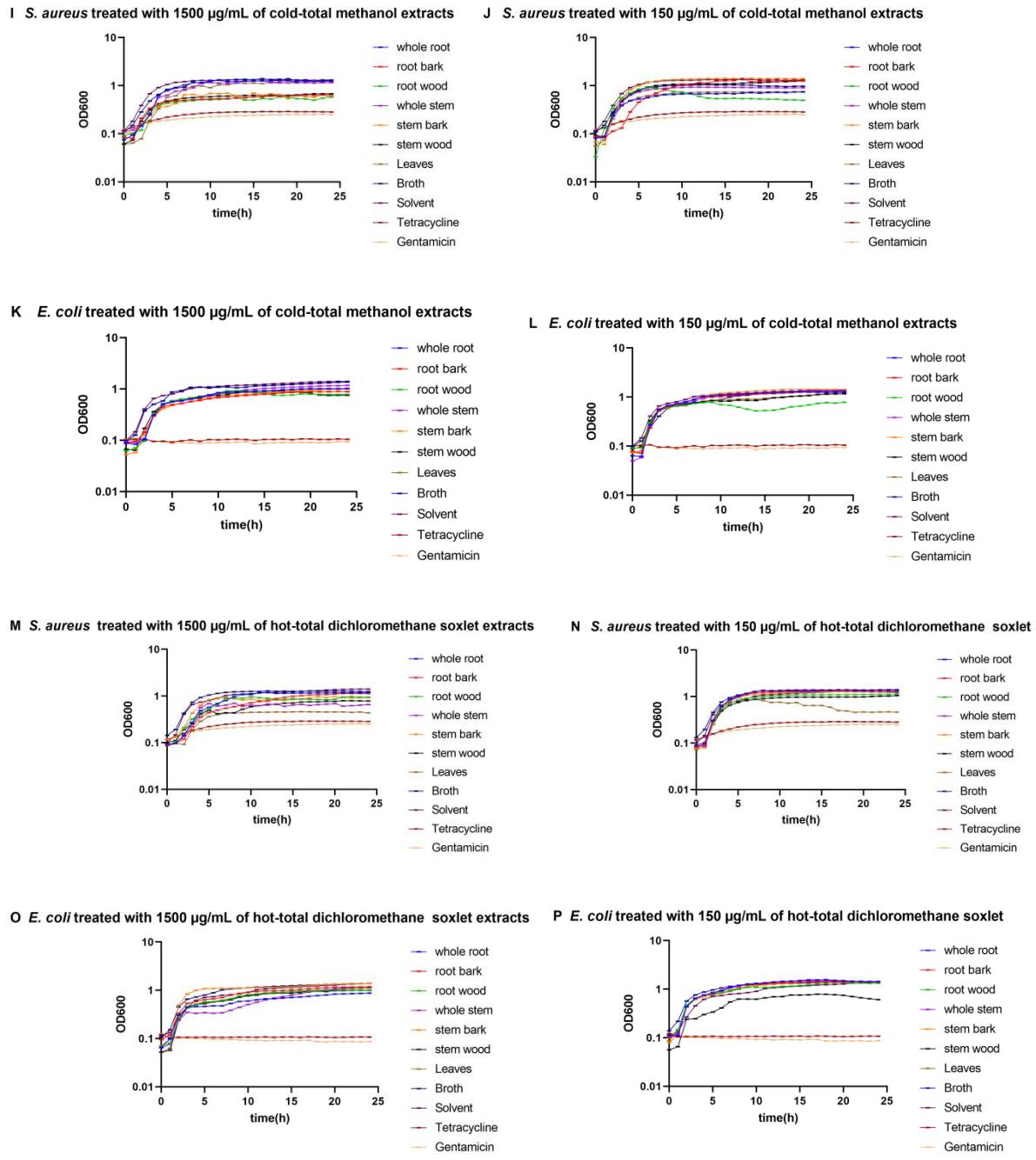


G *E. coli* treated with 1500 µg/mL of cold-total dichloromethane extracts

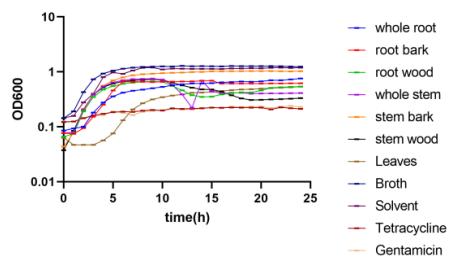


H *E. coli* treated with 150 µg/mL of cold-total dichloromethane extracts

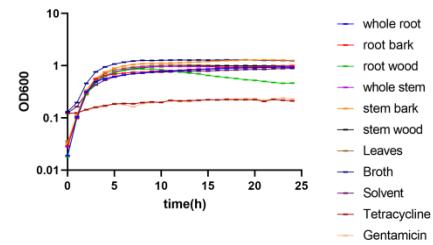




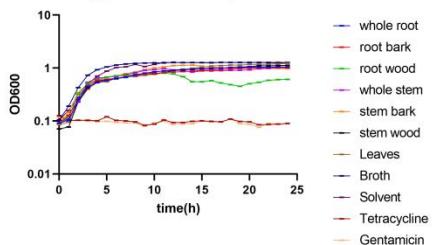
Q *S. aureus* treated with 1500 µg/mL of hot-sequential methanol soxlet



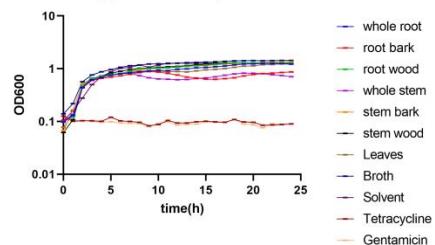
R *S. aureus* treated with 150 µg/mL from hot-sequential methanol soxlet extracts



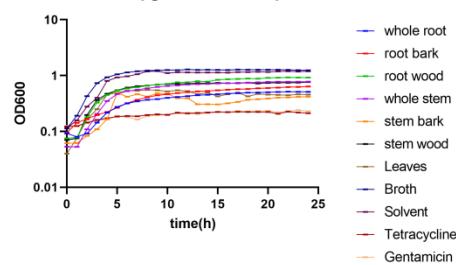
S *E. coli* treated with 1500 µg/mL from hot-sequential methanol soxlet extracts



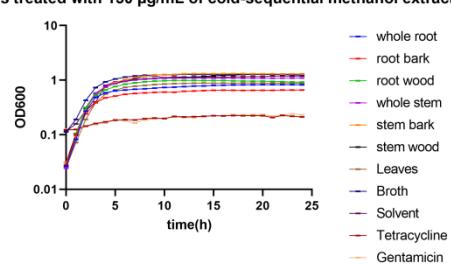
T *E. coli* treated with 150 µg/mL of hot-sequential methanol soxlet extracts



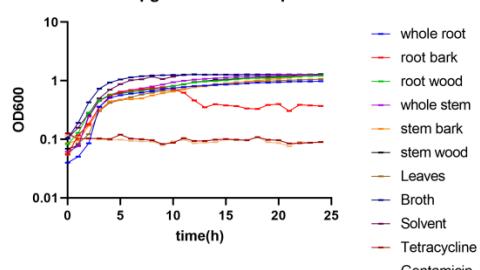
U *S. aureus* treated with 1500 µg/mL of cold-sequential methanol extracts



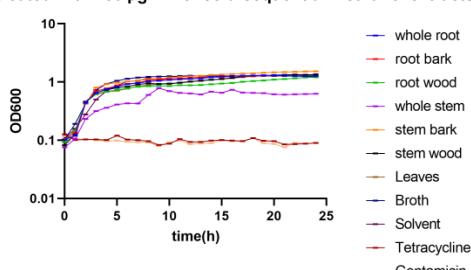
V *S. aureus* treated with 150 µg/mL of cold-sequential methanol extracts



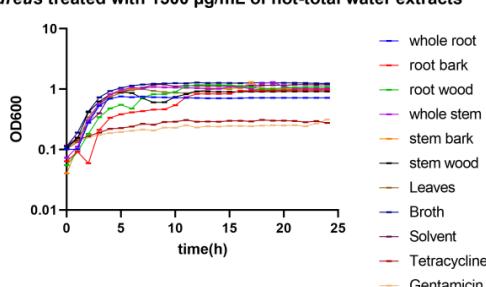
W *E. coli* treated with 1500 µg/mL of cold-sequential methanol extracts



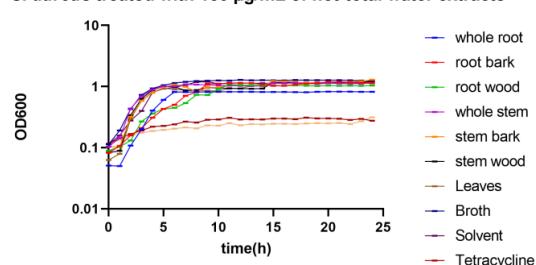
X *E. coli* treated with 150 µg/mL of cold-sequential methanol extracts



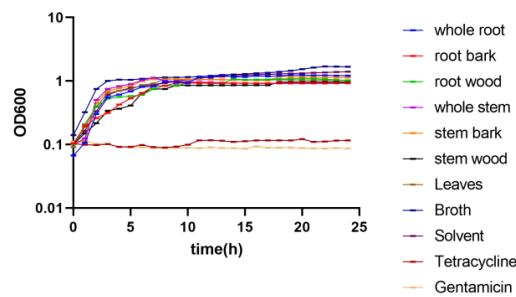
Y *S. aureus* treated with 1500 µg/mL of hot-total water extracts



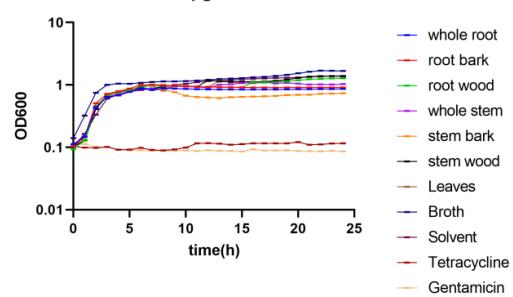
Z *S. aureus* treated with 150 µg/mL of hot-total water extracts



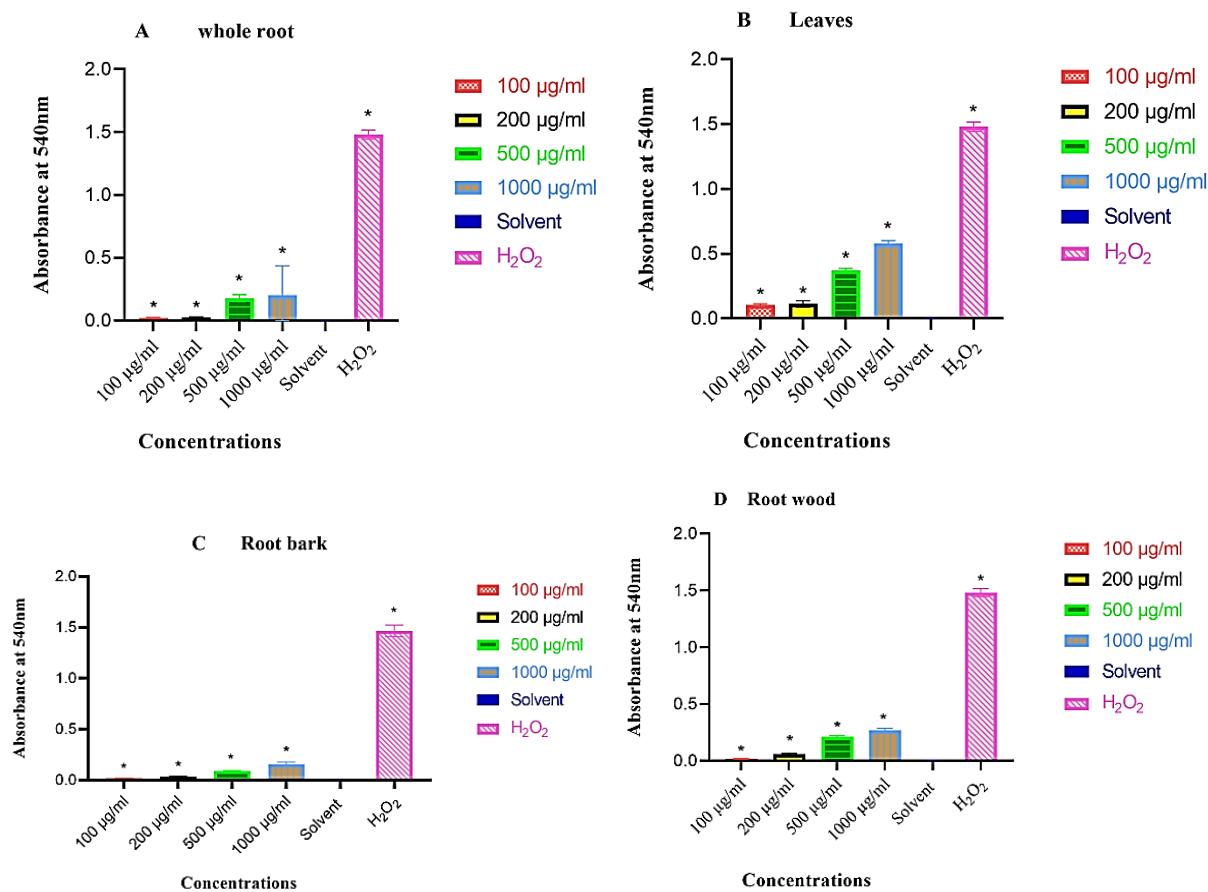
A1 *E. coli* treated with 1500 µg/mL of hot-total water extracts



B1 *E. coli* treated with 150 µg/mL of hot-total water extracts



Supplementary Figure S1. Growth curves for *S. aureus* and *E. coli* treated with extracts of *C. swynnertonii*



Supplementary Figure S2. Haemolytic activity of extracts of *C. swynnertonii* on sheep RBC as compared to negative control (5%DMSO)