

Table S1. Antibacterial activity of pomegranate peel extract against *P. aeruginosa*.

S. No.	PGP Extract	Concentrations in microliter (μ l)			
		20	25	30	35
		(Size of zone inhibition in mm)			
1	FDM	22.83 \pm 0.28 ^a	23.33 \pm 0.57 ^a	24.00 \pm 0.00 ^a	24.16 \pm 0.29 ^a
2	FDE	19.16 \pm 0.028 ^c	18.83 \pm 0.28 ^f	19.66 \pm 0.57 ^f	20.16 \pm 0.29 ^e
3	FDW	19.83 \pm 0.028 ^d	20.50 \pm 0.50 ^{cd}	20.66 \pm 0.58 ^e	21.93 \pm 0.11 ^c
4	FDA	22.00 \pm 0.00 ^b	22.00 \pm 0.50 ^b	22.00 \pm 0.00 ^c	23.16 \pm 0.29 ^b
5	FDH	ND	ND	ND	ND
6	TDM	21.50 \pm 0.50 ^{bc}	23.00 \pm 0.00 ^a	23.00 \pm 0.00 ^b	23.83 \pm 0.28 ^a
7	TDE	19.00 \pm 0.00 ^e	19.83 \pm 0.28 ^e	20.00 \pm 0.00 ^f	21.00 \pm 0.00 ^d
8	TDW	20.00 \pm 0.00 ^d	20.00 \pm 0.00 ^{de}	21.16 \pm 0.27 ^d	21.33 \pm 0.57 ^d
9	TDA	21.16 \pm 0.76 ^{bc}	22.00 \pm 0.00 ^b	22.83 \pm 0.29 ^b	23.00 \pm 0.00 ^b
10	TDH	ND	ND	ND	ND
11	SDM	21.00 \pm 0.00 ^c	20.83 \pm 0.28 ^c	21.16 \pm 0.28 ^d	22.16 \pm 0.29 ^c
12	SDE	19.16 \pm 0.28 ^e	20.16 \pm 0.28 ^{de}	18.16 \pm 0.28 ^g	17.16 \pm 0.28 ^f
13	SDW	18.83 \pm 0.28 ^e	19.00 \pm 0.00 ^f	19.83 \pm 0.28 ^f	20.00 \pm 0.00 ^e
14	SDA	19.83 \pm 0.28 ^d	20.00 \pm 0.00 ^{de}	21.00 \pm 0.00 ^{de}	22.16 \pm 0.28 ^c
15	SDH	ND	ND	ND	ND

(Note: F = Freeze dried, T = Tray dried, S = Sun dried, M = Methanol, E = Ethanol, W = Water, A = Acetone, H = Hexane; N=5, Mean \pm SD and superscripts letters a, b, c, d.... representing significant difference, P < 0.05).

Table S2. Antibacterial activity of pomegranate peel extract against *E. coli*.

S. No.	PGP Extract	Concentrations (μ l)			
		20	25	30	35
		(Size of zone inhibition in mm)			
1	FDM	21.66 \pm 0.55 ^{bc}	21.66 \pm 0.57 ^b	23.33 \pm 0.57 ^a	24.00 \pm 0.00 ^a
2	FDE	22.66 \pm 0.57 ^a	22.66 \pm 0.57 ^a	23.00 \pm 0.00 ^{ab}	23.83 \pm 0.28 ^{ab}
3	FDW	22.00 \pm 0.00 ^{ab}	22.00 \pm 0.00 ^b	22.83 \pm 0.28 ^b	23.00 \pm 0.00 ^c
4	FDA	21.33 \pm 1.15 ^{bcd}	23.00 \pm 0.00 ^a	23.00 \pm 0.00 ^{ab}	23.50 \pm 0.50 ^b
5	FDH	ND	ND	ND	ND
6	TDM	19.66 \pm 0.58 ^{ef}	20.00 \pm 0.00 ^d	19.33 \pm 0.57 ^e	20.16 \pm 0.28 ^f
7	TDE	19.66 \pm 0.57 ^{ef}	20.00 \pm 0.00 ^d	21.00 \pm 0.00 ^d	21.33 \pm 0.57 ^e
8	TDW	20.66 \pm 0.57 ^d	21.00 \pm 0.00 ^c	22.16 \pm 0.28 ^c	22.66 \pm 0.57 ^c
9	TDA	21.00 \pm 0.00 ^{cd}	22.00 \pm 0.00 ^b	23.00 \pm 0.00 ^{ab}	23.00 \pm 0.00 ^c
10	TDH	ND	ND	ND	ND
11	SDM	19.83 \pm 0.28 ^e	20.00 \pm 0.00 ^d	21.00 \pm 0.00 ^d	21.16 \pm 0.28 ^e
12	SDE	18.00 \pm 0.00 ^g	18.16 \pm 0.28 ^f	19.00 \pm 0.00 ^e	19.00 \pm 0.00 ^g
13	SDW	20.83 \pm 0.28 ^d	21.00 \pm 0.00 ^c	22.00 \pm 0.00 ^c	22.00 \pm 0.00 ^d
14	SDA	19.00 \pm 0.00 ^f	19.00 \pm 0.00 ^e	19.00 \pm 0.00 ^e	20.00 \pm 0.00 ^f
15	SDH	ND	ND	ND	ND

(Note: F = Freeze dried, T = Tray dried, S = Sun dried, M = Methanol, E = Ethanol, W = Water, A = Acetone, H = Hexane; N=5, Mean \pm SD and superscripts letters a, b, c, d.... representing significant difference, P < 0.05).

Table S3. Antibacterial activity of pomegranate peel extract against *B. bifidum*.

S. No.	PGP Extract	Concentrations (μ l)			
		20	25	30	35
		(Size of zone inhibition in mm)			
1	FDM	21.90 \pm 0.17 ^a	22.10 \pm 0.17 ^b	22.96 \pm 0.05 ^b	24.10 \pm 0.28 ^a
2	FDE	19.06 \pm 0.11 ^d	20.03 \pm 0.05 ^e	19.96 \pm 0.05 ^e	21.00 \pm 0.00 ^e
3	FDW	19.96 \pm 0.05 ^c	20.00 \pm 0.00 ^e	21.03 \pm 0.06 ^d	21.06 \pm 0.11 ^e
4	FDA	20.00 \pm 0.00 ^c	20.00 \pm 0.00 ^e	20.93 \pm 0.11 ^d	21.00 \pm 0.00 ^e
5	FDH	ND	ND	ND	ND
6	TDM	20.93 \pm 0.11 ^b	21.00 \pm 0.00 ^d	22.00 \pm 0.00 ^c	22.16 \pm 0.28 ^d
7	TDE	20.10 \pm 0.00 ^b	21.90 \pm 0.17 ^c	22.90 \pm 0.17 ^b	23.00 \pm 0.00 ^c
8	TDW	21.00 \pm 0.00 ^b	21.93 \pm 0.11 ^c	24.00 \pm 0.00 ^a	24.00 \pm 0.00 ^b
9	TDA	21.80 \pm 0.34 ^a	22.93 \pm 0.11 ^a	23.00 \pm 0.00 ^b	23.00 \pm 0.00 ^{bc}
10	TDH	ND	ND	ND	ND
11	SDM	21.00 \pm 0.00 ^b	21.93 \pm 0.11 ^c	22.00 \pm 0.00 ^c	22.90 \pm 0.17 ^c
12	SDE	16.80 \pm 0.34 ^e	17.00 \pm 0.00 ^f	19.00 \pm 0.00 ^f	19.00 \pm 0.00 ^g
13	SDW	20.00 \pm 0.00 ^c	21.00 \pm 0.00 ^d	21.00 \pm 0.00 ^d	21.00 \pm 0.00 ^e
14	SDA	19.10 \pm 0.17 ^d	20.00 \pm 0.00 ^e	20.06 \pm 0.11 ^e	20.13 \pm 0.23 ^f
15	SDH	ND	ND	ND	ND

(Note: F = Freeze dried, T = Tray dried, S = Sun dried, M = Methanol, E = Ethanol, W = Water, A = Acetone, H = Hexane; N=5, Mean \pm SD and superscripts letters a, b, c, d.... representing significant difference, P < 0.05).

Table S4. Antibacterial activity of pomegranate peel extract against *E. faecalis*.

S. No.	PGP Extract	Concentrations (μ l)			
		20	25	30	35
		(Size of zone inhibition in mm)			
1	FDM	21.90 \pm 0.17 ^a	23.00 \pm 0.00 ^a	23.06 \pm 0.11 ^a	24.00 \pm 0.00 ^a
2	FDE	19.03 \pm 0.57 ^d	20.00 \pm 0.00 ^d	20.00 \pm 0.00 ^d	21.23 \pm 0.40 ^d
3	FDW	20.00 \pm 0.40 ^c	20.96 \pm 0.05 ^c	21.00 \pm 0.00 ^c	22.00 \pm 0.00 ^c
4	FDA	21.00 \pm 0.00 ^b	21.00 \pm 0.00 ^c	22.00 \pm 0.70 ^b	23.00 \pm 0.52 ^b
5	FDH	ND	ND	ND	ND
6	TDM	22.00 \pm 0.00 ^a	22.00 \pm 0.00 ^b	22.93 \pm 0.11 ^a	23.00 \pm 0.30 ^b
7	TDE	19.00 \pm 0.00 ^d	19.00 \pm 0.00 ^e	19.00 \pm 0.00 ^e	19.13 \pm 0.23 ^f
8	TDW	19.93 \pm 0.11 ^c	21.00 \pm 0.50 ^c	21.00 \pm 0.45 ^c	22.00 \pm 0.20 ^c
9	TDA	20.00 \pm 0.40 ^c	22.00 \pm 0.10 ^b	22.03 \pm 0.05 ^b	22.00 \pm 0.10 ^c
10	TDH	ND	ND	ND	ND
11	SDM	21.00 \pm 0.43 ^b	22.00 \pm 0.50 ^b	22.00 \pm 0.26 ^b	22.00 \pm 0.65 ^c
12	SDE	18.00 \pm 0.60 ^e	19.00 \pm 0.40 ^e	19.00 \pm 0.00 ^e	20.00 \pm 0.40 ^e
13	SDW	20.00 \pm 0.20 ^c	20.00 \pm 0.17 ^d	21.00 \pm 0.36 ^c	21.00 \pm 0.60 ^d
14	SDA	18.00 \pm 0.20 ^c	18.00 \pm 0.43 ^f	18.00 \pm 0.20 ^f	19.00 \pm 0.26 ^f
15	SDH	ND	ND	ND	ND

(Note: F = Freeze dried, T = Tray dried, S = Sun dried, M = Methanol, E = Ethanol, W = Water, A = Acetone, H = Hexane; N=5, Mean \pm SD and superscripts letters a, b, c, d.... representing significant difference, P < 0.05).