

Supplementary material

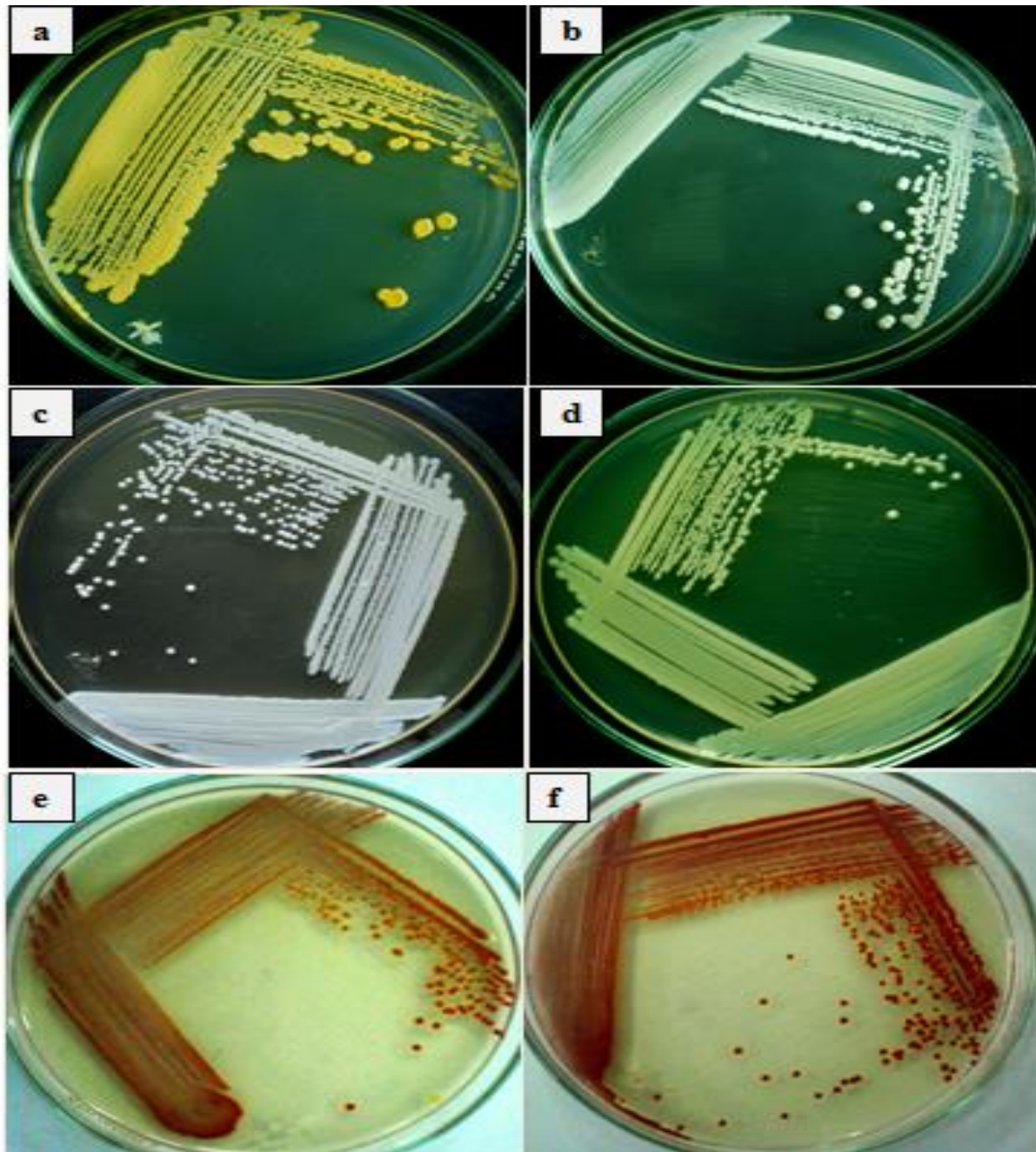


Figure S1. Purified bacterial colonies on LB agar. (a) = BPb-3, (b) = Lc-92, (c) = MCB-3, (d) = Mc-4, (e) = Lc-32, (f) = LCr-22

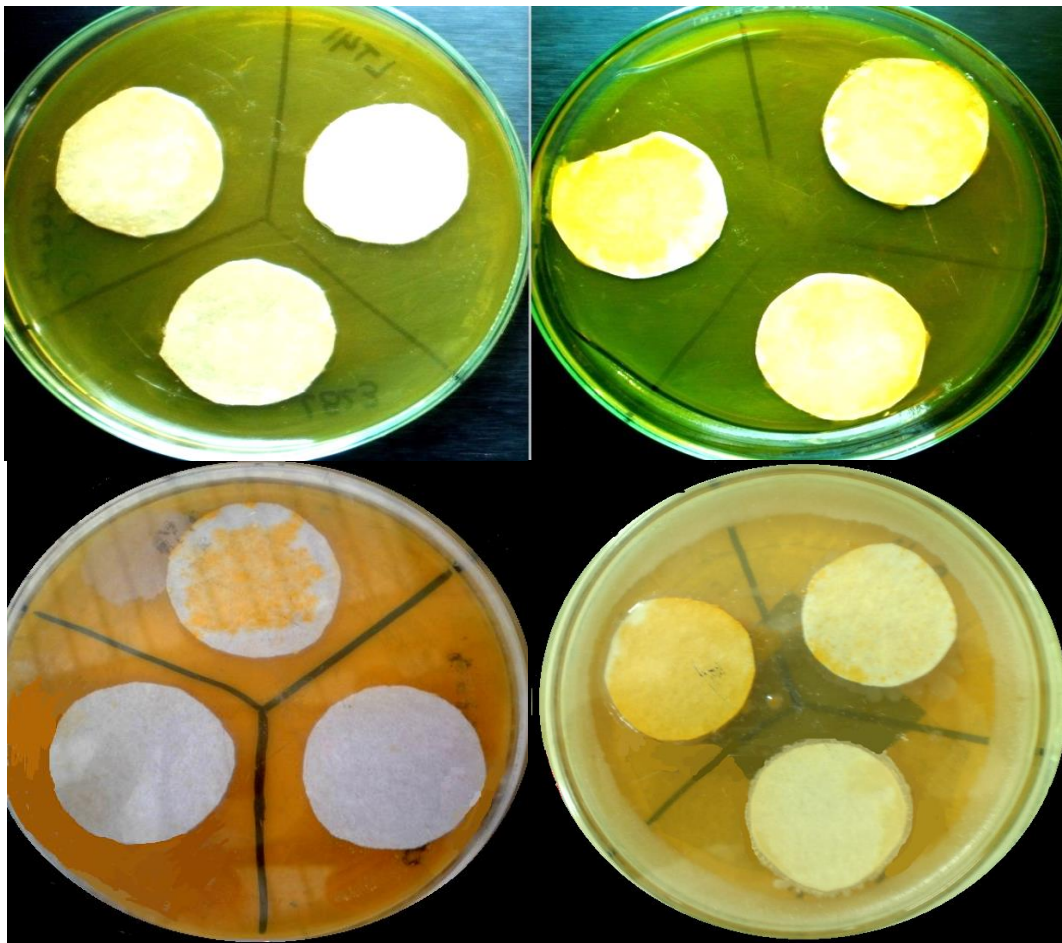


Figure S2. HCN production by different purified bacterial isolates that included BPb-5, BPc-1, Lt-73, Eb-8, MCb-3, MSt-8, BPc-3, Eb-9, Xt-3, Lb-61, Eb-10, Xc-5.

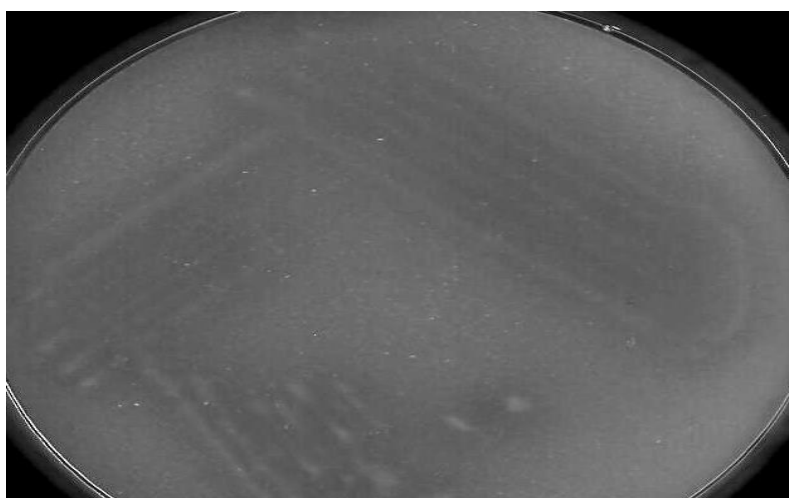


Figure S3. Phosphate solubilization by *A. caloaceticus* Eb-8 on Pikovskaya medium.

Table S1. Auxin production and biofilm formation by plant associated bacteria

Serial No.	Strains	Auxin production with tryptophan		Biofilm production $\lambda = 570$
		0 $\mu\text{g/ml}$	500 $\mu\text{g/ml}$	
1	Control	-	-	0.14 a
2	<i>Acinetobacter calcoaceticus</i> BPb-3	21.88 g-l	28.67 a-d	0.87 o-s
3	<i>Staphylococcus aureus</i> BPb-5	17.95 a-i	29.24 a-d	0.65 f-o
4	<i>Serratia rubidaea</i> BPc-1	20.60 d-l	27.24 a-d	0.33 abc
5	<i>Pantoea dispersa</i> BPc-3	16.52 a-i	21.17 a-d	0.50 b-i
6	<i>Bacillus cereus</i> BPc-4	13.46 abc	22.24 a-d	0.83 m-s
7	<i>S. equorum</i> BPt-5	16.58 a-i	20.24 a-d	0.30 ab
8	<i>Klebsiella pneumoniae</i> Eb-1	33.88 o	75.45 f	1.11 tu
9	<i>B. thuringiensis</i> Eb-10	15.18 a-f	21.00 a-d	0.38 b-e
10	<i>Pantoea vagans</i> Eb-2	18.62 a-i	42.45 b-e	0.47 b-h
11	<i>A. calcoaceticus</i> Eb-4	13.95 a-e	35.38 a-e	0.81 l-s
12	<i>Burkholderia cepacia</i> Eb-6	25.74 j-m	40.95 a-e	0.98 rst
13	<i>A. calcoaceticus</i> Eb-8	26.25 k-m	43.81 de	1.33 v
14	<i>B. cereus</i> Eb-9	16.36 a-i	28.95 a-d	0.58 d-l
15	<i>S. rubidaea</i> EMc-2	12.24 a	38.10 a-e	0.84 n-s
16	<i>B. anthracis</i> EMc-3	13.95 a-e	18.72 ab	0.35 a-d
17	<i>A. calcoaceticus</i> EMc-4	15.53 a-g	19.74 abc	0.78 k-q
18	<i>A. bouvetii</i> EMt-1	15.92 a-h	25.17 a-d	0.47 b-h
19	<i>Enterobacter amnigenus</i> EMt-5	16.81 a-i	24.24 a-d	0.39 b-e
20	<i>Arthrobacter nicotianae</i> Lb-41	22.88 i-l	27.67 a-d	3.42 y
21	<i>B. subtilis</i> Lb-61	19.53 b-j	35.24 a-e	0.55 c-k
22	<i>A. calcoaceticus</i> Lc-52	16.35 a-i	29.02 a-d	0.39 b-e
23	<i>S. rubidaea</i> Lcr-22	32.71 n-o	36.81 a-e	1.28 uv
24	<i>B. cereus</i> Lcw-22	18.25 a-i	40.24 a-e	1.48 v
25	<i>S. xylosus</i> Lt-41	27.47 l-n	33.53 a-d	1.43 v
26	<i>S. warneri</i> Lt-73	19.76 c-k	41.45 a-e	0.69 g-p
27	<i>S. rubidaea</i> Mc-2	30.12 m-o	77.81 f	1.03 st
28	<i>Stenotrophomonas maltophilia</i> Mc-3	18.81 a-i	29.02 a-d	1.02 st
29	<i>A. calcoaceticus</i> Mc-4	21.82 g-l	30.38 a-d	0.75 j-q

30	<i>S. arlettae</i> MCB-3	14.87 a-f	24.74 a-d	2.16 x
31	<i>Exiguobacterium mexicanum</i> MCB-4	20.80 e-k	22.95 a-d	2.21 x
32	<i>B. cereus</i> MCB-6	21.39 f-l	19.81 abc	0.61 e-n
33	<i>B. subtilis</i> MCB-8	17.67 a-i	40.96 a-e	0.71 h-p
34	<i>S. maltophilia</i> MCT-1	50.78 p	101.1 g	0.53 b-j
35	<i>Kluyvera cryocresens</i> MCT-5	13.68 a-d	58.17 ef	1.93 w
36	<i>S. ureilytica</i> MCT-6	18.76 a-i	33.60 a-d	0.39 b-e
37	<i>B. cereus</i> MSB-3	18.82 a-i	68.17 f	0.70 h-p
38	<i>B. anthracis</i> MSB-4	13.90 a-e	19.67 abc	1.29 uv
39	<i>Pantoea</i> sp. MSc-1	12.72 ab	17.67 a	0.47 b-h
40	<i>S. warneri</i> MSc-5	18.87 a-i	28.46 a-d	1.40 v
41	<i>S. xylosus</i> MSt-1	17.78 a-i	30.95 a-d	0.73 i-q
42	<i>S. gallinarum</i> MSt-3	17.15 a-i	28.10 a-d	0.67 f-o
43	<i>A. calcoaceticus</i> MSt-6	15.45 a-g	19.38 abc	0.44 b-f
44	<i>B. cereus</i> MSt-7	21.17 f-l	42.36 b-e	0.46 b-g
45	<i>B. cereus</i> MSt-8	14.56 a-f	28.60 a-d	0.95 q-t
46	<i>B. cereus</i> PCt-1	22.64 h-l	97.24 g	0.59 d-m
47	<i>E. cloacae</i> PCt-2	34.28 o	71.10 f	0.91 p-t
48	<i>S. rubidaea</i> Xb-3	18.1 a-i	27.8 a-d	0.69 g-p
49	<i>B. anthracis</i> Xb-6	16.05 a-i	29.24 a-d	0.30 ab
50	<i>E. cloacae</i> Xc-3	31.77 m-o	43.35 cde	0.70 h-p
51	<i>Pseudomonas putida</i> Xc-5	16.52 a-i	20.93 a-d	0.47 b-h
52	<i>Citrobacter freundii</i> Xc-6	14.83 a-f	42.45 b-e	0.40 b-e
53	<i>Lysinibacillus. fusiformis</i> Xc-7	14.1 a-e	20.52 a-d	0.54 b-j
54	<i>S. xylosus</i> Xt-1	18.23 a-i	42.6 be	2.16 x
55	<i>C. werkmanii</i> Xt-3	20.53 a-i	29.3 a-d	1.22 u
56	<i>L. fusiformis</i> Xt-6	36.48 o	65.10 f	0.50 b-i

Means of three replicates. Different letters within the same column indicate significant difference between treatments using Duncan's multiple range test ($P \leq 0.05$).

Table S2. Phosphate solubilization and HCN production by different bacterial isolates

S. No	Strains	Phosphate solubilization	HCN production
1	<i>Acinetobacter calcoaceticus</i> BPb-3	++	+
2	<i>Staphylococcus aureus</i> BPb-5	-	-
3	<i>Serratia rubidaea</i> BPc-1	+	-
4	<i>Pantoea dispersa</i> BPc-3	-	+++
5	<i>Bacillus cereus</i> BPc-4	-	-
6	<i>S. equorum</i> BPt-5	-	++
7	<i>Klebsiella pneumoniae</i> Eb-1	++	-
8	<i>B. thuringiensis</i> Eb-10	-	+
9	<i>Pantoea vagans</i> Eb-2	+	-
10	<i>A. calcoaceticus</i> Eb-4	++++	+
11	<i>Burkholderia cepacia</i> Eb-6	+	-
12	<i>A. calcoaceticus</i> Eb-8	++++	++
13	<i>B. cereus</i> Eb-9	+	-
14	<i>S. rubidaea</i> EMc-2	+	-
15	<i>B. anthracis</i> EMc-3	-	+
16	<i>A. calcoaceticus</i> EMc-4	+	-
17	<i>A. bouvetii</i> EMt-1	-	+
18	<i>Enterobacter amnigenus</i> EMt-5	-	-
19	<i>Arthrobacter nicotianae</i> Lb-41	-	-
20	<i>B. subtilis</i> Lb-61	-	+++
21	<i>A. calcoaceticus</i> Lc-52	-	-
22	<i>S. rubidaea</i> Lcr-22	-	+
23	<i>B. cereus</i> Lcw-22	-	+
24	<i>S. xylosus</i> Lt-41	+	+
25	<i>S. warneri</i> Lt-73	-	-
26	<i>S. rubidaea</i> Mc-2	-	+
27	<i>Stenotrophomonas maltophilia</i> Mc-3	-	+
28	<i>A. calcoaceticus</i> Mc-4	-	-
29	<i>S. arlettae</i> MCB-3	-	++
30	<i>Exiguobacterium mexicanum</i> MCB-4	-	+
31	<i>B. cereus</i> MCB-6	-	+
32	<i>B. subtilis</i> MCB-8	++	-
33	<i>S. maltophilia</i> MCT-1	-	-
34	<i>Kluyvera cryocresens</i> MCT-5	-	-
35			

36	<i>B. cereus</i> MSb-3	++	-
37	<i>B. anthracis</i> MSb-4	+	-
38	<i>Pantoea</i> sp. MSc-1	+	+
39	<i>S. warneri</i> MSc-5	+	-
40	<i>S. xylosum</i> MSt-1	-	+
41	<i>S. gallinarum</i> MSt-3	-	-
42	<i>A. calcoaceticus</i> MSt-6	-	-
43	<i>B. cereus</i> MSt-7	-	-
44	<i>B. cereus</i> MSt-8	+	++
45	<i>B. cereus</i> PCt-1	-	+
46	<i>E. cloacae</i> PCt-2	-	+
47	<i>S. rubidaea</i> Xb-3	-	+
48	<i>B. anthracis</i> Xb-6	-	+
49	<i>E. cloacae</i> Xc-3	-	+
50	<i>Pseudomonas putida</i> Xc-5	-	-
51	<i>Citrobacter freundii</i> Xc-6	-	-
52	<i>Lysinibacillus. fusiformis</i> Xc-7	-	+
53	<i>S. xylosum</i> Xt-1	-	+
54	<i>C. werkmanii</i> Xt-3	-	-
55	<i>L. fusiformis</i> Xt-6	-	++

Number of '+' shows the intensity of the positive reaction where '++++' and '+' show the strongly and weakly positive reactions, respectively. The sign '-' shows the negative result.