

Supplementary Table 1. Morphological characteristics of isolated rhizobacteria

Sl. No.	Bacterial isolates	Morphological characteristics
1	GVTAM 1	Pinkish white colonies with light brown substrate mycelium
2	GVTAM 2	Brown aerial and substrate mycelium
3	GVTAM 3	Light grey colonies with white centre
4	GVTAM 4	Dark brown aerial mycelium black substrate mycelium
5	GVTAM 5	Grey aerial mycelium cream substrate mycelium
6	GVTAM 6	Light grey aerial mycelium with cream substrate mycelium
7	GVTAM 7	Crumbled white aerial mycelium with greyish spots and pale pink substrate mycelium
8	GVTAM 8	Whitish colonies with pale yellowish margin a cream substrate mycelium
9	SMGAM 1	Milky white aerial and substrate mycelium
10	SMGAM 2	Whitish grey aerial and substrate mycelium
11	SMGAM 3	Whitish colonies with light brown substrate mycelium
12	SMGAM 4	Cream aerial mycelium surrounded by white background
13	SMGAM 5	Cream colonies encircled with light cream colour
14	SMGAM 6	Milky white aerial mycelium with orange substrate mycelium
15	SMGAM 7	Milky white aerial mycelium with greyish substrate mycelium
16	SMGAM 8	Milky white colonies with striations
17	SMGBa 9	Light yellow slimy colonies
18	SMGAM 10	Cream white colonies with marron substrate mycelium
19	SMGBa 11	White slimy colonies
20	DWRAM 1	Cream white colonies with striations
21	DWRAM 2	Grey colonies with marron substrate mycelium
22	DWRAM 3	Cream colonies with grey substrate mycelium
23	DWRAM 4	Brown colonies with grey spots
24	DWRAM 5	Cream colonies with white striations
25	DWRAM 6	Light grey colonies with cream substrate mycelium
26	DWRAM 7	Cream colonies
27	DWRAM 8	Light brown colonies with grey centre
28	DWRAM 9	Light grey colonies with white substrate mycelium
29	DWRAM 10	Light grey colonies encircled with white aerial mycelium and dark grey substrate mycelium
30	DWRAM 11	Orange colonies
31	DWRAM 12	Pale white colonies with light orange centre
32	DWRAM 13	Dark brown colonies with cream striations

Supplementary Table 2. *In vitro* evaluation of bacterial and actinobacterial isolates against *R.solani*

SI No.	Isolates	Mean mycelial inhibition over control (per cent)
1	GVTAM 8	90.61 (72.13)*
2	DWRAM 10	88.38 (70.05)*
3	SMGAM 10	85.05 (67.23)*
4	SMGAM 1	80.06 (63.45)*
5	SMGAM 6	67.27 (55.08)*
6	DWRAM 11	63.66 (52.61)*
7	SMGAM 3	63.16 (52.91)*
8	GVTAM 2	62.22 (52.05)*
9	SMGAM 2	58.33 (49.77)*
10	DWRAM 2	57.77 (49.45)*
11	SMGBa 11	57.22 (49.12)*
12	DWRAM 5	50.56 (45.30)*
13	DWRAM 1	48.88 (44.34)*
14	SMGAM 7	48.33 (43.02)*
15	SMGAM 8	47.22 (43.39)*
16	SMGBa 9	47.22 (43.39)*
17	DWRAM 6	47.22 (43.39)*
18	DWRAM 6	45.55 (42.43)*
19	GVTAM 5	45.00 (42.11)*
20	GVTAM 3	44.44 (41.79)*
21	DWRAM 9	44.44 (41.79)*
22	GVTAM 4	43.89 (41.47)*
23	DWRAM 8	43.33 (41.15)*
24	GVTAM 1	36.66 (37.24)*
25	DWRAM 3	32.78 (34.91)*
26	DWRAM 4	31.67 (34.22)*
27	DWRAM 12	31.11 (33.88)*
28	DWRAM 13	26.11 (30.72)*
29	GVTAM 7	25.55 (30.35)*
30	GVTAM 6	3.33 (10.5)*
31	SMGAM 4	2.78 (9.53)*
32	SMGAM 5	2.22 (8.56)*
33	AUDT 502	87.77 (69.52)*
34	Ba IOF	45.00 (42.11)*

35	Pf IOF	82.78 (65.45)*
	CD value @ 5%	0.88
	S. Em ±	0.30
	CV	0.97

* Arc sine values

Values are average of three replications

Supplementary Table 3. *In vitro* evaluation of bacterial isolates against *R. solani* during secondary screening

Isolates	Mean mycelial inhibition over control (per cent)
GVTAM 8	94.76 (76.83)*
DWRAM 10	91.06 (72.69)*
AUDT 502	89.20 (70.85)*
SMGAM 10	86.90 (68.78)*
Pf IOF	84.78 (67.95)*
SMGAM 1	80.73 (63.94)*
SMGAM 6	69.73 (56.64)*
DWRAM 11	63.66 (54.25)*
GVTAM 2	56.43 (48.25)*
SMGAM 3	55.86 (48.04)*
Control	0.00
S. Em±	0.79
CD Value @1%	3.16

*Arc sine values

Values are average of three replications



a) Gangavati isolates

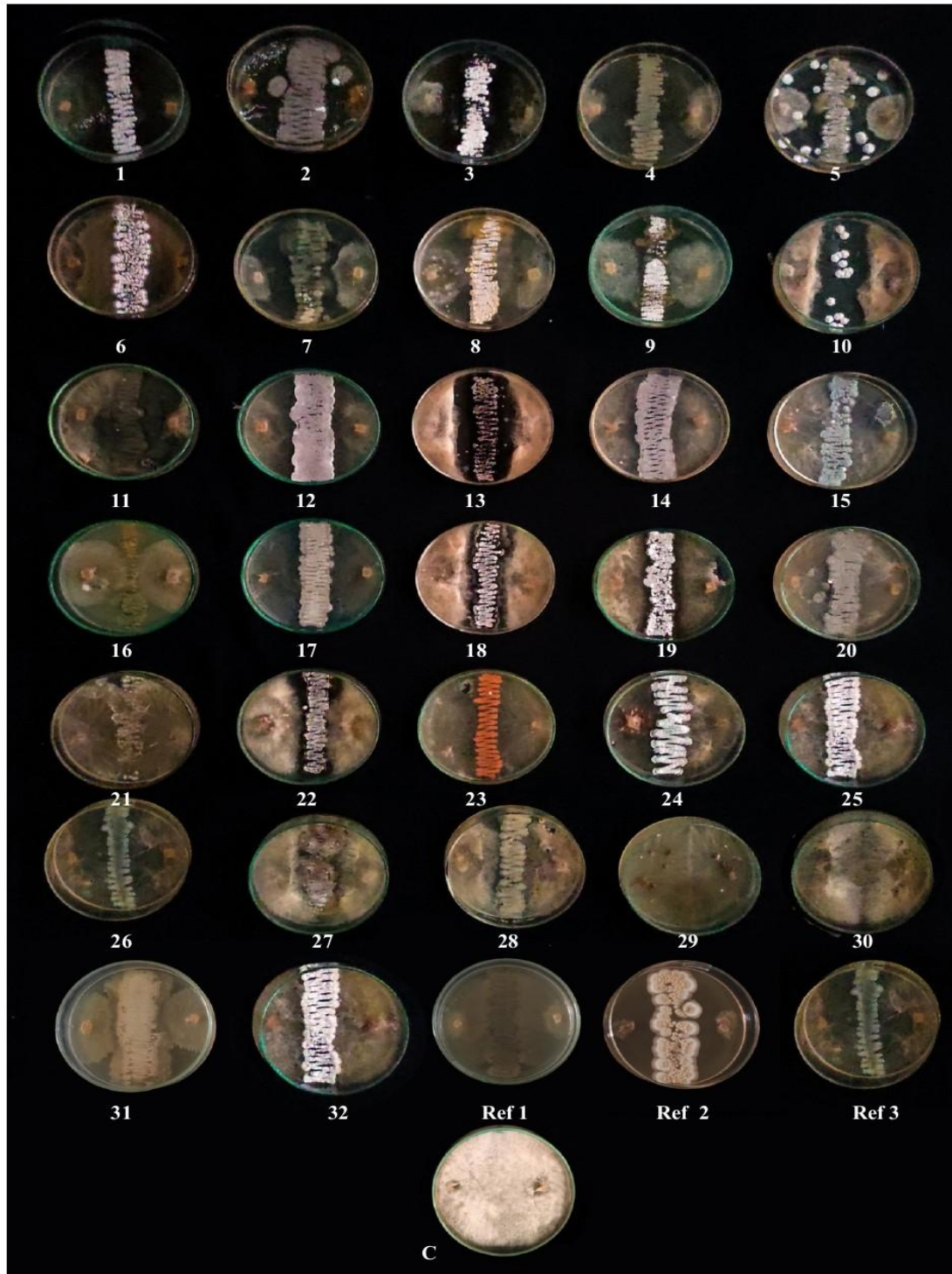


b) Shivamogga isolates



c) Dharwad isolates

Supplementary Fig. 1. Pure culture of different bacteria isolated from rhizospheric soil of rice.



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|--------------|--------------|--------------|--------------|----------------|---------------|---------------|
| 1 - GVTAM 8 | 2 - DWRAM 10 | 3 - SMGAM 10 | 4 - SMGBA 11 | 5 - SMGAM 6 | 6 - DWRAM 11 | 7 - SMGAM 3 |
| 8 - GVTAM 2 | 9 - SMGAM 2 | 10 - DWRAM 2 | 11 - SMGAM 1 | 12 - DWRAM 5 | 13 - DWRAM 1 | 14 - SMGAM 7 |
| 15 - SMGAM 8 | 16 - SMGBA 9 | 17 - DWRAM 6 | 18 - DWRAM 6 | 19 - GVTAM 5 | 20 - GVTAM 3 | 21 - DWRAM 9 |
| 22 - GVTAM 4 | 23 - DWRAM 8 | 24 - GVTAM 1 | 25 - DWRAM 3 | 26 - DWRAM 4 | 27 - DWRAM 12 | 28 - DWRAM 13 |
| 29 - GVTAM 7 | 30 - GVTAM 6 | 31 - SMGAM 4 | 32 - SMGAM 5 | Ref - AUDT 502 | Ref -Ba IOF | Ref -Pf IOF |

Supplementary Fig. 2. *In vitro* evaluation (Primary screening) of actinobacteria against *R. solani*.