

Supplement 1. The morphological character of isolates.

No.	Isolates	Source		Plant ^a	Color of bacteria		Gram	Cell-shaped
		Site	Type		on BNF ^b	on YMA ^c		
1	AT1041	A	Soil rhizosphere	Groundnut	White	Pink-pale	(-)	Bacillus
2	AT1042	A	Soil rhizosphere	Groundnut	White	Pink-pale	(+)	Bacillus
3	AT1044	A	Soil rhizosphere	Groundnut	Greenish-yellow	White	(+)	Coccus
4	AT1043	A	Soil rhizosphere	Groundnut	White	Pink-pale	(+)	Bacillus
5	AT1045	A	Soil rhizosphere	Groundnut	Yellow	White	(-)	Coccus
6	AT1046	A	Soil rhizosphere	Groundnut	White	Red	(+)	Coccus
7	BT1041	B	Soil rhizosphere	Groundnut	White	Pink-pale	(+)	Coccus
8	BT1042	B	Soil rhizosphere	Groundnut	White	Pink-pale	(+)	Bacillus
9	BT1043	B	Soil rhizosphere	Groundnut	White	Pink-pale	(-)	Coccus
10	BT1044	B	Soil rhizosphere	Groundnut	Yellow	White	(+)	Coccus
11	BT1045	B	Soil rhizosphere	Groundnut	White	n.g	(-)	Coccus
12	AK1041	A	Soil rhizosphere	Black potato	White	Pink-pale	(-)	Bacillus
13	AK1042	A	Soil rhizosphere	Black potato	White	Pink	(-)	Bacillus
14	AK1043	A	Soil rhizosphere	Black potato	White	Pink	(-)	Coccus
15	AK1044	A	Soil rhizosphere	Black potato	White	White	(+)	Bacillus
16	AK1045	A	Soil rhizosphere	Black potato	White	Pink-pale	(-)	Diplobacilli
17	BK1041	B	Soil rhizosphere	Black potato	White	White	(+)	Bacillus
18	BK1042	B	Soil rhizosphere	Black potato	White	Pink-pale	(-)	Bacillus
19	BK1043	B	Soil rhizosphere	Black potato	White	Pink	(+)	Streptobacilli
20	BK1044	B	Soil rhizosphere	Black potato	White	Red	(+)	Coccus
21	ATK1041	A	Bulk soil	n.p	White	Pink-pale	(-)	Bacillus
22	ATK1042	A	Bulk soil	n.p	White	Pink-pale	(+)	Coccus
23	ATK1043	A	Bulk soil	n.p	White	Pink-pale	(-)	Coccus
24	ATK1044	A	Bulk soil	n.p	White	Red	(+)	Coccus
25	BTK1041	B	Bulk soil	n.p	White	Pink-pale	(-)	Bacillus
26	BTK1042	B	Bulk soil	n.p	White	Pink-pale	(+)	Bacillus
27	BTK1043	B	Bulk soil	n.p	White	n.g	(+)	Coccus
28	BTK1044	B	Bulk soil	n.p	White	White	(+)	Bacillus
29	BTK1045	B	Bulk soil	n.p	Greenish-yellow	White	(-)	Bacillus
30	BTK1046	B	Bulk soil	n.p	White	White	(-)	Diplobacilli
31	YAT1041	A	Nodule	Groundnut	n.i	White	(+)	Diplobacilli
32	YAT1042	A	Nodule	Groundnut	n.i	Pink	(-)	Bacillus
33	YAT1043	A	Nodule	Groundnut	n.i	Pink	(+)	Bacillus
34	YBT1041	B	Nodule	Groundnut	n.i	White	(+)	Bacillus

35	YBT1042	B	Nodule	Groundnut	n.i	White	(+)	Coccus
36	YBT1043	B	Nodule	Groundnut	n.i	Pink pale	(+)	Bacillus
37	YBT1044	B	Nodule	Groundnut	n.i	Pink	(+)	Coccus
38	YAK1041	A	Tuber	Black potato	n.i	White	(-)	Bacillus
39	YAK1042	A	Tuber	Black potato	n.i	Pink	(-)	Bacillus
40	YAK1043	A	Tuber	Black potato	n.i	White	(-)	Bacillus
41	YBK1041	B	Tuber	Black potato	n.i	White	(-)	Bacillus
42	YBK1042	B	Tuber	Black potato	n.i	Pink	(-)	Bacillus
43	YBK1043	B	Tuber	Black potato	n.i	White	(-)	Bacillus
44	YBK1044	B	Tuber	Black potato	n.i	White	(-)	Bacillus

^ano plant (n.p)

^bnot identified (n.i)

^cno growth was observed (n.g)