

Table S1: General characteristics of rhizobacteria isolated from *E. oleracea* Mart. and evaluated for their potential in promoting plant growth.

Strain Identification	Sampling Area	Season	Gram Staining	Cell Morphology	IAA	Organic phosphate	Inorganic phosphate	Siderophores	Cellulolytic activity	Biofilm	ACC Deaminase	AMS production	
												<i>Curvularia</i>	<i>Colletotrichum</i>
AP1TV1	Solid ground	Summer	+	Streptobacilli	-	+	-	-	+	-	+	+	+
AP1TV2	Solid ground	Summer	+	Streptococci	+	-	-	-	-	-	-	+	-
AP1TV3	Solid ground	Summer	+	Diplobacilli	-	-	-	-	+	-	-	-	+
AP1TV4	Solid ground	Summer	+	Coccos	+	-	-	-	-	-	-	+	+
AP1TV5	Solid ground	Summer	+	Streptobacilli	-	-	+	-	+	-	+	+	+
AP1TV6	Solid ground	Summer	+	Bacilli	+	-	-	-	-	-	-	+	+
AP1TV7	Solid ground	Summer	+	Streptobacilli	-	+	-	-	+	-	+	+	+
AP1TV8	Solid ground	Summer	+	Bacilli	+	-	+	-	-	-	-	+	+
AP1TV9	Solid ground	Summer	+	Bacilli	-	+	-	-	-	-	-	+	+
AP1TV10	Solid ground	Summer	+	Coccobacillus	-	-	-	-	-	-	+	+	+
AP1TV11	Solid ground	Summer	+	Bacilli	+	-	-	-	-	-	-	+	+
AP2TV1	Solid ground	Summer	+	Streptobacilli	-	+	-	-	+	-	+	+	-
AP2TV2	Solid ground	Summer	-	Staphylococci	-	-	-	-	-	-	+	+	-
AP2TV3	Solid ground	Summer	+	Bacilli	-	-	-	-	-	-	-	-	-
AP2TV4	Solid ground	Summer	+	Diplobacilli	-	+	+	-	-	-	+	+	+
AP2TV5	Solid ground	Summer	+	Diplobacilli	+	-	+	-	+	-	+	+	+
AP2TV6	Solid ground	Summer	+	Coccos	+	-	-	-	-	-	-	+	+
AP2TV7	Solid ground	Summer	+	Streptobacilli	-	-	-	-	-	-	+	+	+
AP2TV8	Solid ground	Summer	+	Bacilli	+	-	-	+	+	-	+	+	+
AP3TV1	Solid ground	Summer	-	Staphylococci	-	-	-	-	-	-	+	+	+
AP3TV2	Solid ground	Summer	+	Bacilli	-	-	-	-	+	+	+	+	+
AP3TV3	Solid ground	Summer	-	Bacilli	-	-	-	-	-	-	-	-	-
AP3TV5	Solid ground	Summer	+	Bacilli	-	+	-	-	+	-	-	+	+
AP3TV6	Solid ground	Summer	+	Bacilli	-	-	-	-	-	-	+	+	+
AP3TV7	Solid ground	Summer	+	Coccobacillus	+	-	-	-	-	-	-	+	+
AP3TV8	Solid ground	Summer	+	Coccobacillus	+	-	-	-	-	-	-	+	+

AP2VV ^{A8}	Floodplain	Summer	+	Coccus	-	-	-	-	-	-	-	+	-
AP2VV ^{A9}	Floodplain	Summer	+	Bacilli	-	-	-	-	-	-	-	+	-
AP3VV ^{A3}	Floodplain	Summer	+	Bacilli	-	-	-	-	-	-	+	+	+
AP3VV ^{A4}	Floodplain	Summer	+	Coccus	-	-	-	-	-	-	-	+	+
AP4VV ^{A1}	Floodplain	Summer	+	Streptobacilli	-	-	-	-	-	+	-	-	-
AP4VV ^{A2}	Floodplain	Summer	+	Bacilli	-	-	-	-	-	-	-	-	-
AP4VV ^{A3}	Floodplain	Summer	-	Coccus	+	-	+	+	+	-	+	-	-
AP4VV ^{A4}	Floodplain	Summer	-	Coccus	-	-	-	-	-	-	-	+	+
AP4VV ^{A5}	Floodplain	Summer	+	Streptobacilli	-	-	-	-	-	+	-	-	-
AP4VV ^{A6}	Floodplain	Summer	+	Streptobacilli	-	-	-	-	-	-	-	+	+
AP4VV ^{A7}	Floodplain	Summer	+	Bacilli	+	-	-	-	-	-	+	-	-
AP4VV ^{A8}	Floodplain	Summer	+	Bacilli	-	-	-	-	-	-	-	-	-
AP4VV ^{A9}	Floodplain	Summer	-	Streptobacilli	-	-	-	-	-	-	-	-	-
AP4VV ^{A10}	Floodplain	Summer	+	Diplobacilli	+	-	-	-	-	+	-	-	+
AP4VV ^{A11}	Floodplain	Summer	-	Coccus	-	-	-	-	-	-	-	-	+
AP1TI1	Solid ground	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	+
AP1TI2	Solid ground	Winter	+	Diplobacilli	-	-	-	-	-	+	-	+	-
AP1TI3	Solid ground	Winter	+	Bacilli	-	+	-	-	-	+	-	+	+
AP1TI4	Solid ground	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	+
AP2TI1	Solid ground	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	+
AP2TI2	Solid ground	Winter	+	Bacilli	+	-	-	-	-	-	-	+	+
AP2TI3	Solid ground	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	-
AP2TI4	Solid ground	Winter	+	Diplobacilli	-	-	-	-	-	+	-	+	+
AP2TI5	Solid ground	Winter	-	Coccobacillus	-	+	+	+	-	+	+	-	-
AP3TI1	Solid ground	Winter	+	Diplobacilli	-	-	-	+	-	-	-	+	+
AP3TI2	Solid ground	Winter	+	Bacilli	+	-	-	-	-	-	-	+	-
AP3TI3	Solid ground	Winter	+	Bacilli	+	-	-	-	-	-	-	+	+

AP2VI ^{A6}	Floodplain	Winter	+	Bacilli	-	-	-	+	-	-	-	+	+
AP2VI ^{A7}	Floodplain	Winter	+	Bacilli	-	-	-	-	-	-	-	+	-
AP2VI ^{A8}	Floodplain	Winter	+	Streptobacilli	-	-	-	-	+	-	-	+	+
AP3VI ^{A1}	Floodplain	Winter	+	Diplobacilli	-	-	-	-	-	-	-	-	+
AP3VI ^{A2}	Floodplain	Winter	+	Bacilli	-	-	-	-	-	-	-	+	+
AP3VI ^{A3}	Floodplain	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	-
AP3VI ^{A4}	Floodplain	Winter	+	Bacilli	-	-	-	-	-	-	-	+	-
AP3VI ^{A5}	Floodplain	Winter	+	Streptobacilli	-	-	-	-	-	-	-	+	+
AP3VI ^{A6}	Floodplain	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	+
AP3VI ^{A7}	Floodplain	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	+
AP3VI ^{A8}	Floodplain	Winter	+	Diplobacilli	+	-	-	-	-	-	-	+	+
AP3VI ^{A9}	Floodplain	Winter	+	Bacilli	-	-	-	-	-	-	-	-	-
AP3VI ^{A10}	Floodplain	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	+
AP3VI ^{A11}	Floodplain	Winter	+	Bacilli	-	-	-	-	-	-	-	+	+
AP3VI ^{A12}	Floodplain	Winter	+	Diplobacilli	+	-	-	-	-	-	-	+	+
AP4VI ^{A1}	Floodplain	Winter	+	Bacilli	+	-	-	-	-	-	-	+	+
AP4VI ^{A2}	Floodplain	Winter	+	Bacilli	-	-	-	-	-	-	-	+	+
AP4VI ^{A3}	Floodplain	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	-
AP4VI ^{A4}	Floodplain	Winter	+	Diplobacilli	-	-	-	-	-	-	-	+	-
AP4VI ^{A5}	Floodplain	Winter	+	Coccobacillus	-	-	-	-	-	-	-	+	+

Legend: (+) positive result; (-) negative result; (AMS) Antimicrobial substances; (ACC) 1-aminocyclopropane-1-carboxylate; (IAA) indole-3-acetic acid.