

Phosphate- and potassium-solubilizing *Siccibacter colletis* promotes wheat growth, yield, and nutrient uptake

Pawan Kumar¹, Sandeep Kumar¹, Parkriti Jhila¹, Vikram Poria¹, Rajpaul Yadav², Surender Singh¹

¹Department of Microbiology, Central University of Haryana, Mahendragarh, Haryana, India.

²Department of Soil Science, Krishi Vigyan Kendra, CCSHAU, Hisar, Haryana, India.

doi: <https://doi.org/10.7324/JABB.2024.198931>

SUPPLEMENTARY MATERIAL

Supplementary Table 1:

Physiochemical properties of soil.

Soil parameter	Pot	field
pH	8.2	7.05
EC	0.54 to 0.153 dS/m	0.52 to 0.96 dS/m
Available nitrogen	125.45 Kg/ha	145.36 Kg/ha
Available Potassium	106 Kg/ha	112 Kg/ha
Available Phosphorous	16.71 Kg/ha	18.3 Kg/ha
Organic carbon	0.06 %	0.59%

Supplementary Table 2:

Pots			Field		
Eigenvalue	Percentage of Variance	Cumulative	Eigenvalue	Percentage of Variance	Cumulative
5.98851	85.55%	85.55%	10.52088	75.15%	75.15%
0.64448	9.21%	94.76%	1.96103	14.01%	89.16%
0.22846	3.26%	98.02%	0.91453	6.53%	95.69%
0.09016	1.29%	99.31%	0.47558	3.40%	99.09%
0.03741	0.53%	99.84%	0.128	0.91%	100.00%
0.01025	0.15%	99.99%	0	0.00%	100.00%
7.27E-04	0.01%	100.00%			

Pots		
Extracted Eigenvectors		
	Coefficients of PC1	Coefficients of PC2
Shoot length	0.36949	-0.40549
Root length	0.38318	-0.12704
Wet mass	0.39327	-0.30308
Dry mass	0.37196	-0.43184
P% straw	0.37727	0.40293
N% straw	0.36785	0.43719
K% straw	0.38208	0.43313

field		
Extracted Eigenvectors		
	Coefficients of PC1	Coefficients of PC2
Plant height	0.216	0.20392
Ear height	0.23894	0.10566
Spikelet ear ⁻¹	0.28136	0.04499
Ear weight	0.27184	0.26562
Grain yield	0.27737	0.27908
Straw yield	0.30001	0.12123
Biological yield	0.29441	0.18702
Harvest index	0.20519	0.43725
P% straw	0.2646	-0.34506
N% straw	0.21195	-0.49828
K% straw	0.25715	-0.34719

P% grain	0.29869	-0.13364
N% grain	0.29319	-0.20686
K% grain	0.30205	-0.08593