



Supplementary

Chitosan and probiotic bacteria promotion of yield, post-harvest qualities, antioxidant attributes and shelf life of broccoli heads

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Supplementary Table

Table S1 Brief chronological description of different management operations performed in cultivating broccoli var. *BARI Broccoli-1* with foliar application of chitosan and probiotic bacteria

Management practice	Execution details
Experiment location	Research field of Department of Horticulture, Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur, Bangladesh
Test crop and variety	Broccoli; <i>BARI Broccoli-1</i> (registered broccoli variety in Bangladesh)
Research duration	October 2020–April 2021
Research design and replication	Randomized complete block design with three replications
Seed sowing	12 October 2020 in trays
Seed germination	11 d after sowing
Seedling transplanting in polybag	Age 2 wk in 4 cm × 6 cm polybag
Transplanting in the research field	16 November 2020; age 35 d seedlings
Intercultural operations	As per commercial guides
Chitosan source	Shrimp shell chitosan
Bacteria source	<i>Paraburkholderia fungorum</i> strain BRRh-4
Chitosan and bacteria solution preparation	Just before spraying scheduled
Spray schedule	Twice: once at 20 d after transplanting and a second spray at 40 d after transplanting
Broccoli head/floret initiation	26 December 2020
Head ready to harvest	Within 15–20 d of head initiation
Harvesting commenced	21 January 2021; Harvesting by cutting head along with inflorescence stalk at stem joint
Harvesting duration	21 January–28 January 2021
Measurement of plant growth attributes	In research field on standing crop
Determination of yield traits	In the laboratory of Department of Horticulture, BSMRAU immediately after harvesting
Assessment of biochemical and functional properties	In laboratory of Department of Horticulture, BSMRAU from fresh as well as refrigerated samples

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