



Supplementary Material

Spinetoram, a Selective Novel Insecticide Able to Check Key Lepidopteran Pests in Cabbage Ecosystem

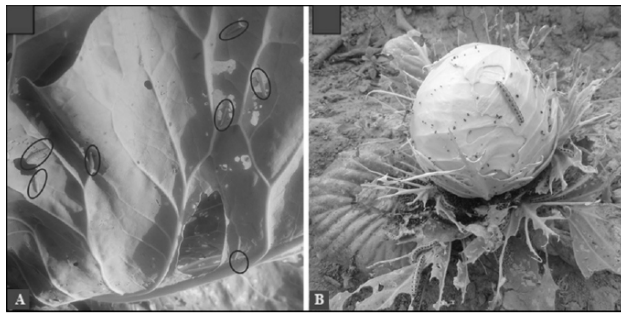
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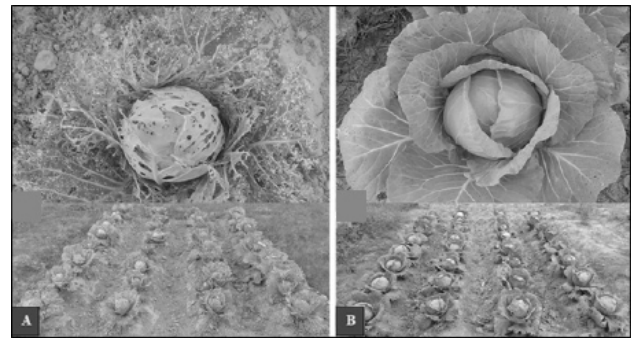
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Supplementary Fig. 1. Lepidopteran insect damage to cabbage head and wrapper leaves. A: DBM larvae damaging wrapper leaves. B: CB larval damage to cabbage head and wrapper leaves




Supplementary Fig. 2. Effect of insecticidal treatment over the untreated control for managing the lepidopteran insect pests in cabbage. A: Control (sprayed with only water) B: Spinetoram (60 g a.i. per ha) treatment.

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Supplementary Table I. Component loadings of mean population of diamond back moth, cabbage butterfly, larval damage rating and marketable weight parameters among the insecticidal treatments.

S. No.	Parameters	Principal components		
		PC1	PC2	PC3
1	Chlorpyrifos	0.048816	0.166857	0.445272
2	Chlorantraniprole	0.259961	0.096785	0.192506
3	Deltamethrin	0.086464	0.187812	0.615254
4	Emamectin Benzoate	0.238682	0.102945	0.072849
5	Flubendiamide	0.170048	0.104067	0.168037
6	Indoxacarb	0.269491	0.130917	0.081991
7	Lambda-Cyhalothrin	0.156774	0.156852	0.315045
8	Spinosad	0.358004	0.100752	-0.086129
9	Spinetoram-1	0.386596	0.107591	-0.146860
10	Spinetoram-2	0.422549	0.049032	-0.237168
11	Spinetoram-3	0.448533	0.027841	-0.295562
12	Control	-0.286564	0.916211	-0.272078

*Note: Spinetoram_1 denotes Spinetoram 30 g a.i. per ha, Spinetoram_2 denotes Spinetoram 45 g a.i. per ha and Spinetoram_3 denotes Spinetoram 60 g a.i. per ha.

Supplementary Table II. Component loadings based on mean populations of coccinellid and spider among the insecticidal treatments.

S. No	Parameters	Principal components		
		PC1	PC2	PC3
1	Chlorpyrifos	0.169002	-0.138609	0.285298
2	Chlorantraniprole	0.377626	-0.224669	-0.782912
3	Deltamethrin	0.268293	-0.574893	0.058842
4	Emamectin benzoate	0.281915	0.163715	-0.003321
5	Flubendiamide	0.272472	0.404111	-0.138458
6	Indoxacarb	0.252365	0.250193	-0.051453
7	Lambda-cyhalothrin	0.192129	0.503449	0.100377
8	Spinosad	0.270262	0.211583	-0.145421
9	Spinetoram-1	0.317204	-0.138674	0.180785
10	Spinetoram-2	0.316971	-0.015091	0.271599
11	Spinetoram-3	0.305056	0.003448	0.348594
12	Control	0.367896	-0.171482	0.145510

*Note: Spinetoram_1 denotes Spinetoram 30 g a.i. per ha, Spinetoram_2 denotes Spinetoram 45 g a.i. per ha and Spinetoram_3 denotes Spinetoram 60 g a.i. per ha.