
Supplementary Materials

Preparations of 25 wt% of Pyraclostrobin Nanosuspension Concentrate (SC) Using Lignosulfonate-Based Colloidal Spheres to Improve Its Thermal Storage Stability

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Number of Pages: 5

Number of Figures: 2

Number of Tables: 2

Figure S1. SEM image of pyraclostrobin nano-SC with 10 wt% of glycerin after thermal storage for 7 days.

Figure S2. Effects of different pyraclostrobin formulations on growth of flowering cabbage.

Table S1. Grinding formula for preparing pyraclostrobin nano-SC.

Table S2. Farmland experimental scheme of pyraclostrobin against cabbage downy mildew disease.

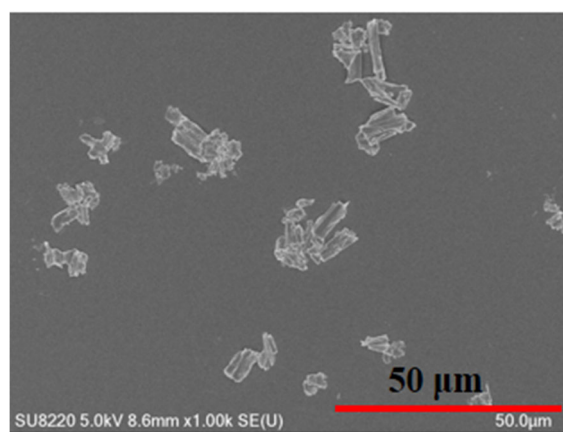


Figure S1. SEM image of pyraclostrobin nano-SC with 10 wt% of glycerin after thermal storage for 7 days.



Figure S2. Effects of different pyraclostrobin formulations on growth of flowering cabbage.

Table S1. Grinding formula for preparing pyraclostrobin nano-SC.

Components	Raw materials	Dosage (wt%)
Pesticide	Pyraclostrobin	25
Dispersant	Lignin dispersants Reax 80D, Reax 85A, polycarboxylate D-3911, D-2912, D-2, SN-5040, TERSPERSE 2500	12
pH controlling agent	Citric acid	A small amount
Disperse medium	Deionized water	Added to 100%
	Total	100

Table S2. Farmland experimental scheme of pyraclostrobin against cabbage downy mildew disease.

Serial number	Formulation	Dilution times	Dosage of formulation (g)	Dosage of wetting agent (g)	D ₉₀ particle size (before dilution) (nm)
1-1	25 wt% of pyraclostrobin SC	750	10	0	2985
1-2	25 wt% of pyraclostrobin SC	500	15	0	2985
2-1	25 wt% of pyraclostrobin nano-SC	750	10	0	215
2-2	25 wt% of pyraclostrobin nano-SC	500	15	0	215
3-1	25 wt% of pyraclostrobin SC	750	10	0.5	2985
3-2	25 wt% of pyraclostrobin SC	500	15	0.5	2985
4-1	25 wt% of pyraclostrobin nano-SC	750	10	0.5	215
4-2	25 wt% of pyraclostrobin nano-SC	500	15	0.5	215
5-1	25 wt% of pyraclostrobin EC (Kairun)	750	10	0	-
5-2	25 wt% of pyraclostrobin EC (Kairun)	500	15	0	-
CK	Water	-	15	0	-