

Supporting Information

The biostimulation activity of two novel benzothiadiazole derivatives in the tomato cultivation

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Table S1. Schedule of treatments for the experiment in 2021 and 2022.

Experiment 2021	Experiment 2022	Description
8.05.2021	11.05.2022	Pre-sowing fertilization: YaraMila Complex (Yara Poland) 500 kg/ha (60 kg N, 55 kg P ₂ O ₅ , 90 kg K ₂ O + microelements)
17.05.2021	20.05.2022	Seedling planting
30.05.2021	2.06.2022	Herbicide: Sencor Liquid 600 S.C. (Bayer Crop Science) - 0.5L / ha
7.06.2021	10.06.2022	Fungicide: Curzate Cu 49,5 WP (Synthos Agro) – 2,25 kg/ha
10.06.2021	13.06.2022	SAR inducer Treatment: 500 l working solution/hectare
14.06.2021	17.06.2022	Fertilizer: Nitrabor 300kg/ha (N-46,2 kg, CaO 76,8 kg, B-9kg)
18.06.2021	21.06.2022	Herbicide: Fusilade Forte 150 EC (Nufarm) – 1.6l/ha
20.06.2021	23.06.2022	Fungicide: Signum 33WG (BASF Agricultural Solutions) – 1kg/ha
23.06.2021	26.06.2022	SAR inducer Treatment: 500 l working solution/hectare
26.06.2021	29.06.2022	Fungicide: Curzate C Extra 31 WG (DuPont Poland Sp. z o.o.) 2kg/ha Insecticide: Karate Zeon 050 CS (Syngenta) - 0.2 l/ha
3.07.2021	6.07.2022	Przed chorobami i szkodnikami Insecticide: Mospilan 20 SP (Sumi Agro Poland) - 0.2 kg/ha Fungicide: Infinito 687.5 SC (Bayer Crop Science) 1.6l/ha
6.07.2021	9.07.2022	SAR inducer Treatment: 500 l working solution/hectare
10.07.2021	13.07.2022	Fertilizer: Unica Calcium (Yara Poland) 300kg/ha (N-42,6, K ₂ O – 72, CaO 36)
14.07.2021	17.07.2022	Przed chorobami i szkodnikami Fungicide: Polyram 70 WG (BASF Agricultural Solutions) - 1.8 kg/ha Insecticide: Fastac 100 EC (BASF Agricultural Solutions) 0.12 L/ha
19.07.2021	22.07.2022	SAR inducer Treatment: 500 l working solution/hectare
23.07.2021	26.07.2022	Fungicide: Ridomil Gold MZ Peptite 67.8 WG (Target) 2,25 kg/ha

29.07.2021	1.08.2022	Fungicide: Scorpion 325 S.C. (Syngenta) 1 l/ha Insecticide: Mospilan 20 SP (Sumi Agro Poland) 0.2 kg/ha
1.08.2021	4.08.2022	SAR inducer Treatment: 500 l working solution/hectare
4.08.2021	7.08.2022	Fungicide: Curzate C Extra 31 WG (DuPont Poland Sp. z o.o.) 2kg/ha
10.08.2021	13.08.2022	Fungicide: Carbio Duo 31 WG (BASF Agricultural Solutions) 2.3 kg/ha
14.08.2021	17.08.2022	SAR inducer Treatment: 500 l working solution/hectare
20.08.2021	23.08.2022	Fungicide: Curzate C Extra 31 WG (DuPont Poland Sp. z o.o.) 2kg/ha
26.08.2021	29.08.2022	1st harvest
27.08.2021	30.08.2022	SAR inducer Treatment: 500 l working solution/hectare
29.08.2021	1.09.2022	Fungicide: Orvego 525 S.C. (BASF Agricultural Solutions) - 0.8 L/ha
3.09.2021	5.09.2022	2 nd harvest
04.09.2021	7.09.2022	Fungicide: Acrobat MZ 69 WG (BASF Agricultural Solutions) 2kg/ha
8.09.2021	12.09.2022	3rd harvest
9.09.2021	13.09.2022	SAR inducer Treatment: 500 l working solution/hectare
11.09.2021	14.09.2022	Fungicide: Revus 250 S.C. (Syngenta) 0.6 L /ha
16.09.2021	19.09.2022	4th harvest
19.09.2021	21.09.2022	Fungicide: Orvego 525 S.C. (BASF Agricultural Solutions) - 0.8 L/ha
22.09.2021	24.09.2022	SAR inducer Treatment: 500 l working solution/hectare
24.09.2021	26.09.2022	5th harvest