

Table S1. Activity of plant water extracts against potato seed phytopathogens measured as growth inhibition zones in the agar-well diffusion method. M – mean; SD – standard deviation; a-b – the same letter is not significantly different (ANOVA.  $\alpha = 0.05$ ; Tukey's test.  $\alpha= 0.05$ ).

Table S2. Activity of plant glycol-water extracts against potato seed phytopathogens measured as growth inhibition zones in the agar-well diffusion method. M – mean; SD – standard deviation; a-e – the same letter is not significantly different (ANOVA.  $\alpha = 0.05$ ; Tukey's test.  $\alpha= 0.05$ ).

Plant species	Phytopathogen growth inhibition zone M+SD [mm]									
	<i>Fusarium oxysporum</i>	<i>Fusarium sambucinum</i>	<i>Alternaria alternata</i>	<i>Alternaria solani</i>	<i>Alternaria tenuissima</i>	<i>Colletotrichum coccodes</i>	<i>Rhizoctonia solani</i>	<i>Phoma exigua</i>	<i>Pectobacterium carotovorum</i>	<i>Streptomyces scabiei</i>
<i>Achillea millefolium</i> <sup>ab</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	12.01.0	3.0±1.0	11.7±1.2
<i>Mentha piperita</i> <sup>ab</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	19.3±0.6	0.0±0.0	5.7±0.6	0.0±0.0
<i>Salvia officinalis</i> <sup>abc</sup>	3.3±0.6	0.0±0.0	7.3±0.6	6.0±1.0	6.7±0.6	1.2±0.6	21.7±4.2	6.0±1.0	7.0±1.0	24.0±1.0
<i>Equisetum arvense</i> <sup>ab</sup>	0.0±0.0	0.0±0.0	3.7±0.6	0.0±0.0	0.0±0.0	0.0±0.0	12.0±1.0	0.0±0.0	0.0±0.0	16.3±1.2
<i>Urtica dioica</i> <sup>a</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	6.3±1.2	0.0±0.0	0.0±0.0	0.0±0.0
<i>Taraxacum officinale</i> <sup>a</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	5.0±0.0	13.7±
<i>Elymus repens</i> <sup>a</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	3.7±1.2	3.7±1.2	0.0±0.0	9.7±0.6
<i>Hypericum perforatum</i> <sup>ab</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	6.7±0.6	0.0±0.0	6.0±1.0	5.0±0.0	15.0±0.0
<i>Rosmarinus officinalis</i> <sup>ab</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	18.0±1.7	1.7±0.6	7.0±0.0	22.0±1.7
<i>Humulus lupulus</i> <sup>abc</sup>	1.3±0.6	2.7±0.6	4.3±1.2	0.0±0.0	4.7±0.6	0.0±0.0	1.3±0.6	9.0±1.0	5.0±0.0	25.0±2.0
<i>Satureja hortensis</i> <sup>ab</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	5.0±0.0	13.7±1.2	2.3±0.6	9.0±0.0	20.7±0.6
<i>Carum carvi</i> <sup>a</sup>	0.0±0.0	0.0±0.0	1.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	13.0±2.0	0.0±0.0	6.0±1.0	7.3±0.6
<i>Nigella sativa</i> <sup>ab</sup>	0.0±0.0	0.0±0.0	10.0±	0.0±0.0	0.0±0.0	6.7±0.6	7.7±2.5	14.7±0.6	8.7±1.2	0.0±0.0
<i>Thymus vulgaris</i> <sup>ab</sup>	0.0±0.0	5.0±1.0	7.3±0.6	3.0±1.7	0.0±0.0	9.7±0.6	12.7±2.1	2.3±0.6	3.7±1.2	0.0±0.0
<i>Lavandula angustifolia</i> <sup>ab</sup>	3.7±0.6	4.3±1.2	0.0±0.0	0.0±0.0	0.0±0.0	9.7±0.6	0.0±0.0	0.0±0.0	5.3±0.6	0.0±0.0
<i>Armoracia rusticana</i> <sup>ab</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	2.7±0.6	0.0±0.0	0.0±0.0	9.1±0.6	12.7±0.6
<i>Allium sativum</i> <sup>d</sup>	29.7±0.6	0±0.0	29.7±0.6	51.0±1.0	26.7±0.6	34.7±0.6	33.3±1.5	51.0±1.0	25.7±0.6	35.7±0.6
<i>Caryophyllus aromaticus</i> <sup>e</sup>	49.0±1.0	41.0±1.0	34.7±0.6	59.0±1.0	40.3±0.6	50.3±0.6	52.7±2.5	55.0±1.0	26.3±0.6	49.3±0.6
<i>Allium cepa</i> <sup>ab</sup>	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	21.3±0.6	0.0±0.0
<i>Curcuma longa</i> <sup>c</sup>	0.0±0.0	0.0±0.0	0.0±0.0	18.3±0.6	0.0±0.0	18.7±0.6	24.3±0.6	21.3±0.6	0.0±0.0	28.3±0.6
<i>Polygonum bistorta</i> <sup>bc</sup>	0.0±0.0	0.0±0.0	22.3±0.6	0.0±0.0	0.0±0.0	16.7±0.6	0.0±0.0	25.0±1.0	22.0±1.0	0.0±0.0
<i>Polygonum aviculare</i> <sup>abc</sup>	0.0±0.0	0.0±0.0	17.7±0.6	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0	21.7±0.6	23.7±1.5

Table S3. Activity of plant subcritical carbon dioxide extracts against potato seed phytopathogens measured as growth inhibition zones in the agar-disc diffusion method. M – mean; SD – standard deviation; a-b – the same letter is not significantly different (ANOVA.  $\alpha = 0.05$ ; Tukey's test.  $\alpha= 0.05$ ).

Plant species	Phytopathogen growth inhibition zone M+SD [mm]									
	<i>Fusarium oxysporum</i>	<i>Fusarium sambucinum</i>	<i>Alternaria alternata</i>	<i>Alternaria solani</i>	<i>Alternaria tenuissima</i>	<i>Colletotrichum coccodes</i>	<i>Rhizoctonia solani</i>	<i>Phoma exigua</i>	<i>Pectobacterium carotovorum</i>	<i>Streptomyces scabiei</i>
<i>Carum carvi</i> <sup>a</sup>	5.0±0	0.0±0.0	15.3±0.6	0.0±0.0	7.3±	10.3±0.6	7.3±0.6	12.7±0.6	4.0±0.0	10.0±1.0
<i>Thymus vulgaris</i> <sup>b</sup>	25.3±0.6	45.0±1.0	15.3±1.2	35.3±0.6	13.3±0.6	45.3±1.2	45.3±1.5	48.7±1.2	10.0±1.0	21.3±1.2
<i>Nigella sativa</i> <sup>a</sup>	9.3±1.5	11.3±0.6	15.0±1.0	2.7±0.6	0.0±0.0	16.0±1.0	0.0±0.0	0.0±0.0	0.0±0.0	19.3±1.2