Supplementary Materials

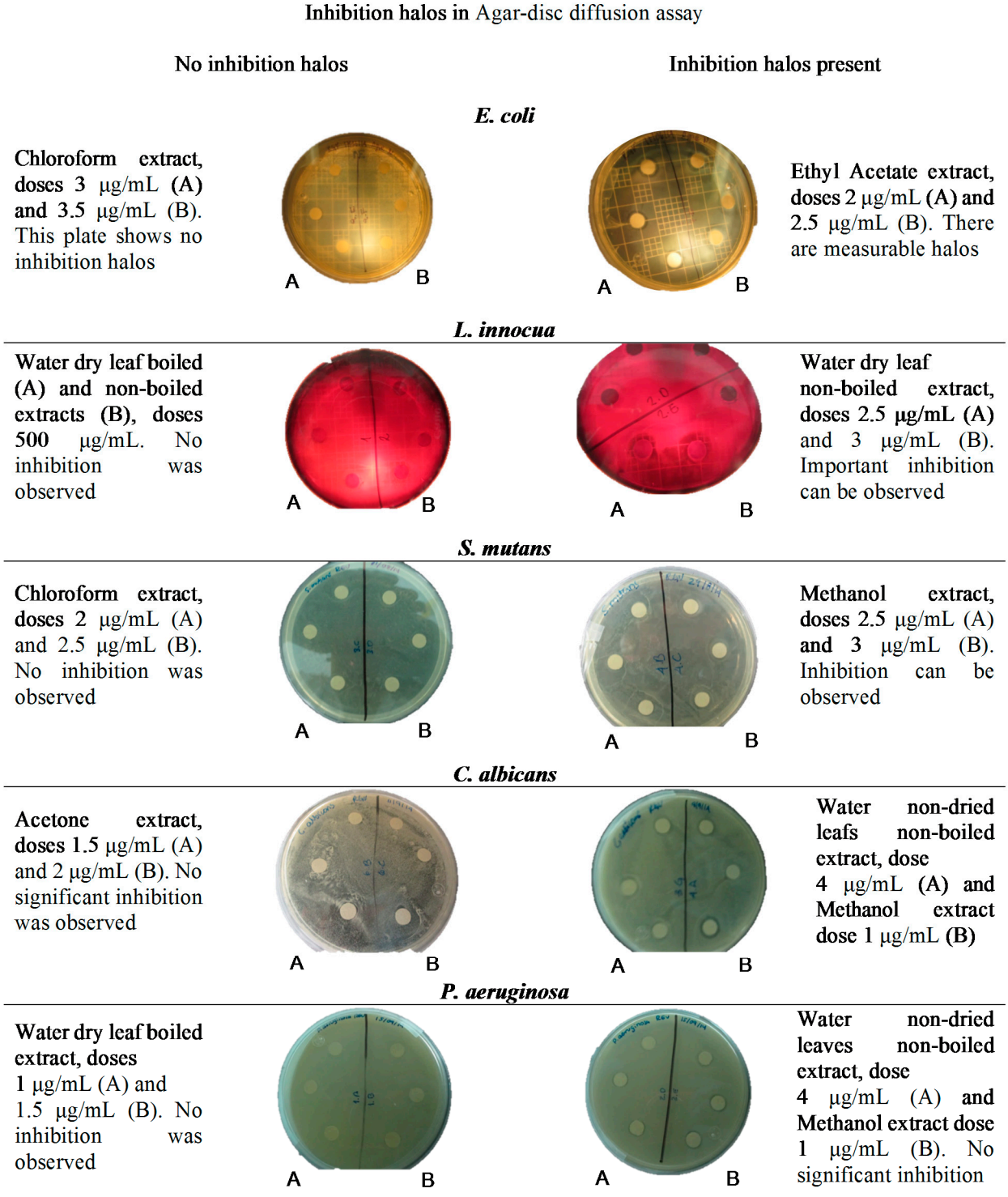

Figure S1. Extract agar-disc diffusion assay. The extracts were placed on filter paper discs, which diffuse the extract into the medium. When an extract is bioactive, an inhibition halo forms around the disc, preventing microorganism growth.

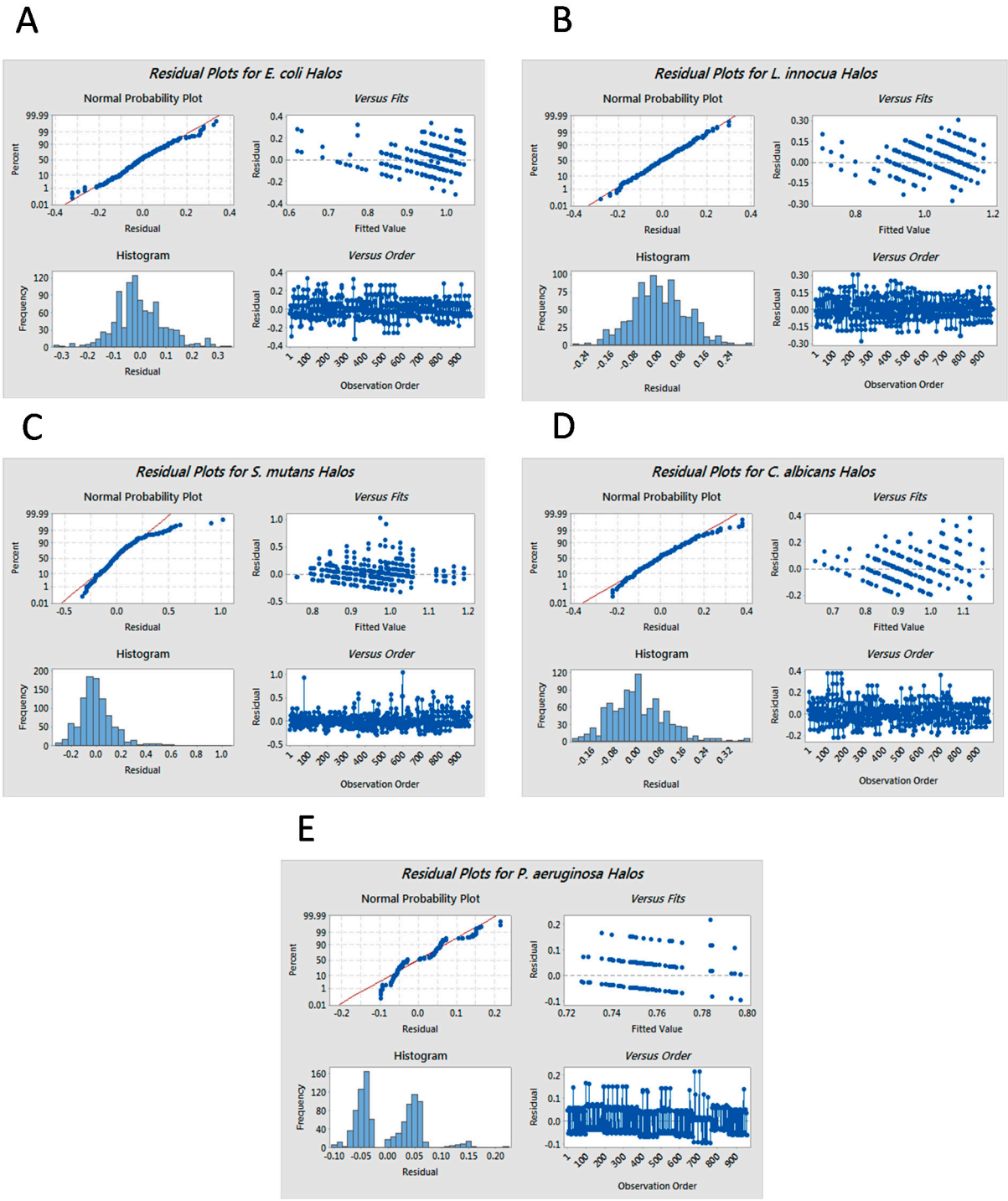

Figure S2. Halo residual plots (**A**) *E. coli*; (**B**) *L. innocua*; (**C**) *S. mutans*; (**D**) *C. albicans*; and (**E**) *P. aeruginosa*. These charts provide information on the uniformity of the results, indicating repeatability and leaving little error among samples.

Table S1. Inhibition halos measurements extract-dose interaction.

Dose	*E. coli*	*L. innocua*	*S. mutans*	*C. albicans*	*P. aeruginosa*
Extract #1 Water, Dry Leaf, Non-Boiled					
500 µg/mL	0.70	0.94	0.96	0.89	0.75
1 µg/mL	0.94	1.08	* 1.22	* 1.19	0.77
1.5 µg/mL	0.85	1.07	* 1.14	0.93	0.76
2 µg/mL	0.94	* 1.17	* 1.11	1.01	0.78
2.5 µg/mL	0.91	* 1.13	* 1.18	1.04	0.74
3 µg/mL	0.97	* 1.11	1.06	1.03	0.76
3.5 µg/mL	* 1.13	* 1.16	1.09	0.98	0.74
4 µg/mL	* 1.13	* 1.23	1.06	* 1.14	0.70
Extract #2 Water, Non-Dried Leaf, Non-Boiled					
500 µg/mL	0.70	0.98	0.88	0.92	0.78
1 µg/mL	0.97	* 1.15	1.04	* 1.19	0.70
1.5 µg/mL	* 1.18	1.08	* 1.11	* 1.40	0.70
2 µg/mL	1.01	* 1.18	1.01	* 1.18	0.70
2.5 µg/mL	0.99	* 1.21	0.79	0.98	0.77
3 µg/mL	0.90	* 1.11	0.85	0.99	0.77
3.5 µg/mL	0.81	1.03	0.95	1.03	0.73
4 µg/mL	1.08	0.91	0.98	1.06	0.73
Extract #3 Water, Dry Leaf, Boiled					
500 µg/mL	0.70	0.70	0.95	0.75	0.87
1 µg/mL	0.98	0.94	0.97	0.88	0.73
1.5 µg/mL	0.98	1.03	1.05	0.98	0.73
2 µg/mL	1.03	* 1.23	0.89	0.77	0.73
2.5 µg/mL	1.03	* 1.12	0.88	0.83	0.73
3 µg/mL	0.91	1.08	0.88	1.01	0.70
3.5 µg/mL	0.91	1.05	0.98	0.76	0.70
4 µg/mL	0.91	* 1.11	* 1.14	1.03	0.80
Extract #4 Methanol					
500 µg/mL	0.70	0.85	0.87	0.75	0.82
1 µg/mL	0.94	* 1.17	* 1.19	* 1.20	0.81
1.5 µg/mL	0.96	0.98	0.98	0.95	0.73
2 µg/mL	1.02	1.03	0.95	0.94	0.73
2.5 µg/mL	1.02	* 1.16	0.86	1.01	0.73
3 µg/mL	1.09	1.09	0.91	0.92	0.73
3.5 µg/mL	1.02	1.08	0.85	1.04	0.73
4 µg/mL	1.07	1.08	0.90	0.93	0.73
Extract #5 Ethanol					
500 µg/mL	0.70	0.73	0.85	0.73	0.75
1 µg/mL	0.97	* 1.14	0.81	0.98	0.73
1.5 µg/mL	1.07	* 1.17	1.02	0.97	0.73
2 µg/mL	1.00	0.98	0.88	0.93	0.79

Table S1. *Cont.*

Dose	*E. coli*	*L. innocua*	*S. mutans*	*C. albicans*	*P. aeruginosa*
Extract #5 Ethanol					
2.5 µg/mL	0.97	1.03	1.03	0.94	0.77
3 µg/mL	1.02	* 1.10	0.98	0.88	0.82
3.5 µg/mL	1.02	1.07	0.93	0.90	0.82
4 µg/mL	* 1.23	* 1.14	0.83	0.88	0.72
Extract #6 Ethyl Acetate					
500 µg/mL	0.70	0.72	0.81	0.73	0.75
1 µg/mL	* 1.15	1.05	0.97	0.83	0.72
1.5 µg/mL	1.02	1.04	0.89	0.75	0.72
2 µg/mL	0.75	* 1.13	0.97	0.75	0.72
2.5 µg/mL	1.02	1.03	0.90	1.03	0.73
3 µg/mL	0.90	1.08	0.83	0.83	0.73
3.5 µg/mL	0.89	0.98	0.95	0.89	0.83
4 µg/mL	0.75	0.89	0.96	0.86	0.83
Extract #7 Acetone					
500 µg/mL	0.74	0.89	0.78	0.72	0.73
1 µg/mL	0.88	0.98	1.01	0.89	0.78
1.5 µg/mL	1.01	0.97	1.00	0.89	0.78
2 µg/mL	0.94	0.95	0.98	0.88	0.74
2.5 µg/mL	1.05	0.90	0.86	1.08	0.77
3 µg/mL	* 1.10	1.00	0.84	0.92	0.76
3.5 µg/mL	0.68	0.93	0.84	0.95	0.77
4 µg/mL	1.02	0.99	* 1.18	0.96	0.78
Extract #8 Petroleum Ether					
500 µg/mL	0.73	0.70	0.81	0.75	0.73
1 µg/mL	0.94	1.01	* 1.29	* 1.15	0.82
1.5 µg/mL	0.93	1.08	1.00	0.99	0.84
2 µg/mL	0.85	1.03	* 1.19	1.05	0.81
2.5 µg/mL	0.94	0.92	0.80	0.95	0.80
3 µg/mL	0.88	0.92	0.80	1.07	0.78
3.5 µg/mL	0.89	0.98	0.94	0.88	0.78
4 µg/mL	0.89	0.96	0.93	0.94	0.78
Extract #9 Chloroform					
500 µg/mL	0.75	0.78	0.70	0.70	0.70
1 µg/mL	0.79	1.00	0.85	0.79	0.74
1.5 µg/mL	0.97	0.98	0.84	0.83	0.73
2 µg/mL	0.83	1.05	0.70	0.74	0.70
2.5 µg/mL	0.89	0.95	0.70	0.78	0.70
3 µg/mL	0.79	0.83	1.03	0.88	0.76
3.5 µg/mL	0.78	0.83	* 1.19	0.88	0.77
4 µg/mL	0.77	0.93	0.97	0.83	0.80

Table S1. *Cont.*

Dose	*E. coli*	*L. innocua*	*S. mutans*	*C. albicans*	*P. aeruginosa*
Extract #10 Hexane					
500 µg/mL	0.72	0.83	0.70	0.70	0.70
1 µg/mL	0.84	0.98	0.97	0.81	0.80
1.5 µg/mL	0.84	0.91	1.02	0.83	0.76
2 µg/mL	0.83	0.93	* 1.11	0.84	0.78
2.5 µg/mL	0.84	0.84	0.72	0.88	0.76
3 µg/mL	0.97	0.91	0.70	0.99	0.77
3.5 µg/mL	0.81	0.90	0.88	0.96	0.75
4 µg/mL	0.81	0.86	0.88	0.83	0.75

Numerical data is represented in centimeters (cm) and corresponds to the halo diameter for each disc and extract sample. The diameter of the filter discs measured 0.7 cm, therefore measurements in excess of 7 cm will indicate an effect of the extract and dose on a particular microorganism. Diameters labeled with * correspond to the most significant growth inhibition effects. All standard deviations were found to be <10%, and $p < 0.05$.