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**Supplementary Material**

**Table S1**. Organic extracts (1 %) of five weeds from tomato crop and their effect on seed germination of three model plants as amaranth (*A. hypocondriaccus*), lettuce (*L. sativa*), and tomato (*S. lycopersicum*), (Means + standard error of 4 experiments with n = 10. Statistical significance *P* < 0.05.

|  |  |  |
| --- | --- | --- |
| ***WEED PLANTS*** | **TREATMENTS** | |
| **Organic solvent extracts** | |
| **CH2Cl2-MeOH (1:1) 1 % w/ v** | **MeOH, 1 % w/ v** |
| ***Seed germination on Amaranthus hypochondriacus*** | | |
| H2O control | 9.70.25 | 9.70.25 |
| CH2Cl2 control | 10.00.00 | ------ |
| MeOH control | ------ | 9.70.25 |
| *Argemone mexicana* | 10.00.00 | 10.00.00 |
| *Baccharis salicifolia* | 9.20.25 | 10.00.00 |
| *Lepidium virginicum* | 9.70.25 | 10.00.00 |
| *Leucaena leucocephala* | 10.00.00 | 9.70.25 |
| *Reseda luteola* | 9.70.25 | 9.70.25 |
| ***Seed germination on Lactuca sativa*** | | |
| H2O control | 10.00.00 | 10.00.00 |
| CH2Cl2 control | 10.00.00 | ------ |
| MeOH control | ------ | 10.00.00 |
| *Argemone mexicana* | 10.00.00 | 10.00.00 |
| *Baccharis salicifolia* | 9.70.25 | 10.00.00 |
| *Lepidium virginicum* | 10.00.00 | 10.00.00 |
| *Leucaena leucocephala* | 10.00.00 | 10.00.00 |
| *Reseda luteola* | 10.00.00 | 10.00.00 |
| ***Seed germination on Solanum lycopersicum*** | | |
| H2O control | 9.70.25 | 8.51.19 |
| CH2Cl2 control | 9.50.28 | ------ |
| MeOH control | ------ | 9.00.00 |
| *Argemone mexicana* | 10.00.00 | 9.70.25 |
| *Baccharis salicifolia* | 9.20.47 | 9.00.40 |
| *Lepidium virginicum* | 9.70.25 | 9.50.28 |
| *Leucaena leucocephala* | 9.20.47 | 9.70.25 |
| *Reseda luteola* | 9.50.28 | 9.00.40 |