



Supplementary file

HOW TO CITE THIS ARTICLE

Nasiri A., Fallah S., Sadeghpour A. 202x. Essential Oil Potential of *Echinophora cinerea* Boiss: An Alternative to Systemic Herbicides in Agroecosystems. *Agrotechniques in Industrial Crops* x(x): xx-xx. [10.22126/ATIC.2025.11753.1195](https://doi.org/10.22126/ATIC.2025.11753.1195)

Table S1. R-squared values based on the linear regression lines for multiple parameters tested for concentration of growth inhibitor in *C. album* weed. If the co-efficient of determination (R-square) value for the linear regression line is 65% or higher the concentration-response curves were deemed linear.

Parameters	Equation	R-square
Peroxidase activity	$y = -0.46x^2 + 2.9x - 0.12$	0.92 (NL)
Ascorbate peroxidase activity	$y = -1.98x^2 + 11.6x + 21.2$	0.86 (NL)
Chlorophyll-a	$y = -134x + 816$	0.99 (L)
Chlorophyll-b	$y = -37.4x + 331$	0.99 (L)
Carotenoids	$y = -25.9x + 224$	0.98 (L)
Seedling length	$y = -7.68x + 56.3$	0.94 (L)
Seedling fresh weight	$y = -0.65x + 4.21$	0.99 (L)
Seedling dry weight	$y = -0.01x + 0.04$	0.92 (L)

"L" denotes linear, and "NL" denotes nonlinear concentration-response relationships.