

Phytogrowth-Inhibitory Activity of Isolated Compounds from *Edenia gomezpompae* on the Germination, Root Elongation, and Seedling Respiration of *Amaranthus hypochondriacus*, *Solanum lycopersicum* and *Echinochloa crus-galli*.

Compound	Seed	% of inhibitions								
		Germination			Root growth			Seedling Respiration		
		50 μg/mL	100 μg/mL	200 μg/mL	50 μg/mL	100 μg/mL	200 μg/mL	50 μg/mL	100 μg/mL	200 μg/mL
2	<i>A. hypochondriacus</i>	33.7±1.1*	74.8±2.1*	100± 0.0*	37.9±1.3*	78.4±1.1*	100±0.0*	12.7±1.5	34.9±1.4*	66.5±1.4*
	<i>S. lycopersicum</i>	32.0±1.3*	60.0±1.6*	78.2±2.0*	7.3±1.1	20.9±1.5*	45.6±1.5*	19.1±1.2*	38.4±1.6*	69.3±1.5*
	<i>E. crus-galli</i>	15.7±1.8*	29.3±1.3*	56.2±1.2*	33.9±1.9*	66.4±1.4*	84.3±1.2*	14.7±1.1*	26.7±1.2*	55.6±1.4*
3	<i>A. hypochondriacus</i>	29.0±1.5*	53.3±1.5*	76.9±1.6*	19.3±1.5*	41.6±1.2*	75.4±1.6*	-34.2±1.4*	-25.3±1.7*	14.8±1.2*
	<i>S. lycopersicum</i>	8.9±1.1	39.8±1.2*	71.8±1.4*	0.0±2.3	13.3±1.8	47.6±1.8*	32.9±1.6*	54.9±1.8*	90.0±2.3*
	<i>E. crus-galli</i>	30.0±1.6*	72.5±2.4*	95.1±1.7*	0.0±1.8	8.1±1.8	78.3±1.1*	6.8±1.8	16.7±1.1*	39.7±1.7*
4	<i>A. hypochondriacus</i>	34.3±1.9*	78.4±1.1*	100±0.0*	10.3±1.2	21.5±1.7*	100±0.0*	3.4±1.0	10.8±1.0	48.6±1.8*
	<i>S. lycopersicum</i>	32.2±1.4*	65.0±1.9*	79.9±1.4*	16.0±1.6*	28.7±1.5*	57.9±1.4*	9.7±1.8	22.7±1.6*	35.8±1.7*
	<i>E. crus-galli</i>	30.1±1.1*	57.5±1.7*	81.5±1.9*	22.6±1.1*	46.4±1.3*	87.2±1.3*	24.3±1.6*	50.6±1.9*	85.8±1.5*
5	<i>A. hypochondriacus</i>	10.1±1.3	26.6±1.5*	53.8±1.5*	11.9±1.9	26.2±1.4*	54.2±1.5*	0.0±1.4	6.0±1.8	21.3±1.6*
	<i>S. lycopersicum</i>	19.6±1.6*	41.0±1.3*	52.5±2.2*	21.4±1.5*	32.7±1.6*	69.8±1.9*	29.6±1.7*	59.5±1.7*	85.8±2.5*
	<i>E. crus-galli</i>	6.4±1.7	29.2±1.8*	100±0.0*	0.0±2.4	4.6±1.0	100±0.0*	0.0±1.6	0.0±1.8	16.7±1.1*
6	<i>A. hypochondriacus</i>	24.0±1.8*	36.7±1.2*	68.9±1.3*	13.2±1.8	27.2±1.9*	55.0±1.7*	0.0±1.1	3.6±1.1	12.9±1.2
	<i>S. lycopersicum</i>	12.7±1.3	38.8±1.3*	91.2±1.5*	0.0±1.7	11.3±1.5	46.4±1.8*	32.6±1.5*	59.2±1.3*	78.8±2.0*
	<i>E. crus-galli</i>	19.5±1.5*	43.3±1.9*	68.3±1.9*	0.0±1.2	3.8±1.5	44.3±1.0*	4.3±1.4	9.8±1.2	27.3±1.8*
7	<i>A. hypochondriacus</i>	19.1±1.6*	51.8±1.1*	87.4±1.2*	20.1±1.8*	40.2±1.2*	92.4±1.5*	5.3±1.8	13.3±1.1	30.5±1.7*
	<i>S. lycopersicum</i>	33.1±1.5*	65.0±1.5*	76.8±1.1*	9.1±1.1	25.4±1.1*	53.1±1.2*	22.0±1.7*	52.9±1.7*	78.4±2.1*
	<i>E. crus-galli</i>	27.9±1.9*	69.1±1.4*	96.0±1.4*	3.4±1.2	13.1±1.6	39.3±1.1*	29.6±1.2*	62.9±1.9*	93.5±1.4*

	<i>A. hypochondriacus</i>	29.7±1.2*	64.3±1.0*	85.8±1.4*	23.0±1.1*	59.1±1.1*	97.2±2.3*	3.6±1.3	10.8±1.5	30.4±1.6*
8	<i>S. lycopersicum</i>	33.5±1.2*	82.5±1.5*	100±0.0*	26.5±1.2*	68.6±1.0*	100±0.0*	20.1±1.8*	51.4±1.9*	86.2±1.2*
	<i>E. crus-galli</i>	33.1±1.8*	70.8±1.6*	100±0.0*	23.4±1.1*	63.8±1.5*	100±0.0*	-45.6±1.4*	-33.6±1.2*	8.7±1.1
	<i>A. hypochondriacus</i>	33.6±1.3*	74.9±2.0*	100±0.0*	36.0±1.4*	74.3±1.6*	100±0.0*	-15.4±1.7*	-8.4±1.3	24.3±1.0*
9	<i>S. lycopersicum</i>	29.9±1.5*	63.8±1.1*	89.6±2.5*	19.5±1.8*	33.5±1.4*	68.0±1.6*	20.3±1.9*	55.4±1.5*	87.2±1.4*
	<i>E. crus-galli</i>	28.3±1.9*	73.3±1.3*	100±0.0*	24.9±1.9*	68.2±1.8*	100±0.0*	12.1±1.1*	19.4±1.8*	43.3±1.8*
Rival	<i>A. hypochondriacus</i>	12.3±1.0	27.4±1.5*	39.0±1.0*	15.6±1.3*	42.1±1.5*	76.0±1.7*	22.1±1.5*	41.3±1.1*	74.2±2.0*
	<i>S. lycopersicum</i>	0.0±1.5	10.0±1.6	28.8±1.4*	19.3±1.6*	41.9±1.4*	86.0±2.1*	18.9±1.9*	62.1±1.2*	94.1±1.9*
	<i>E. crus-galli</i>	9.6±1.9	28.5±1.4*	45.2±2.1*	24.5±1.2*	47.2±1.8*	88.2±1.8*	26.4±1.3*	56.3±1.8*	87.6±1.4*

Rival = glyphosate: *N*-(phosphonomethyl) glycine (positive control).

A positive value represents inhibition; a negative value represents stimulation. $n = 4$; * $p < 0.05$

