

Supplementary material

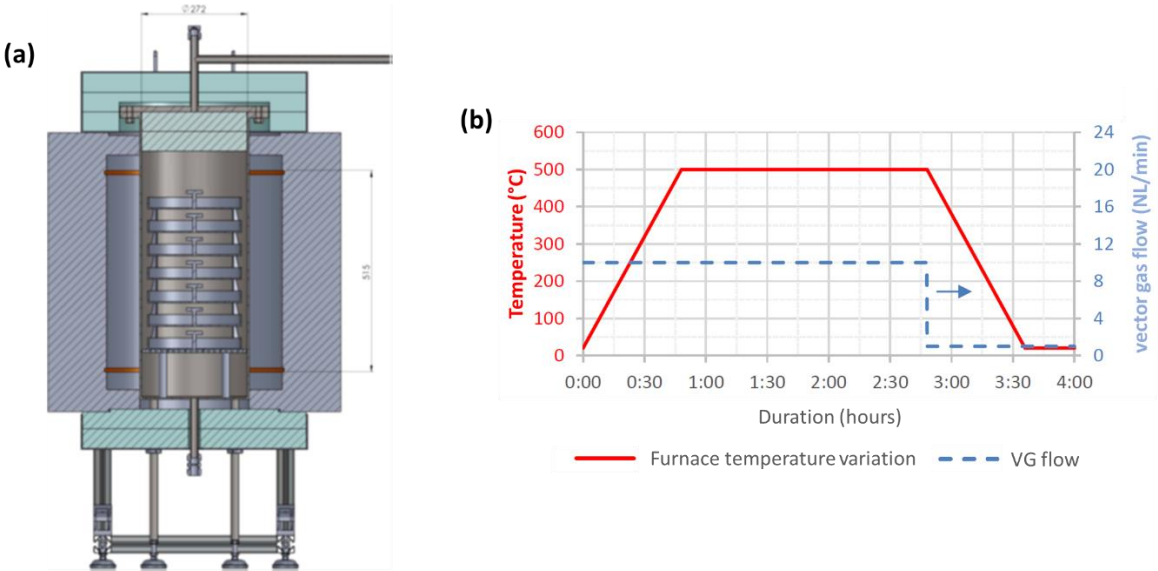


Figure A.1. Axial plane of the used furnace - (a) (Haddad et al., 2017) and Carrier gas temperature and flow profiles followed during the tests (b).

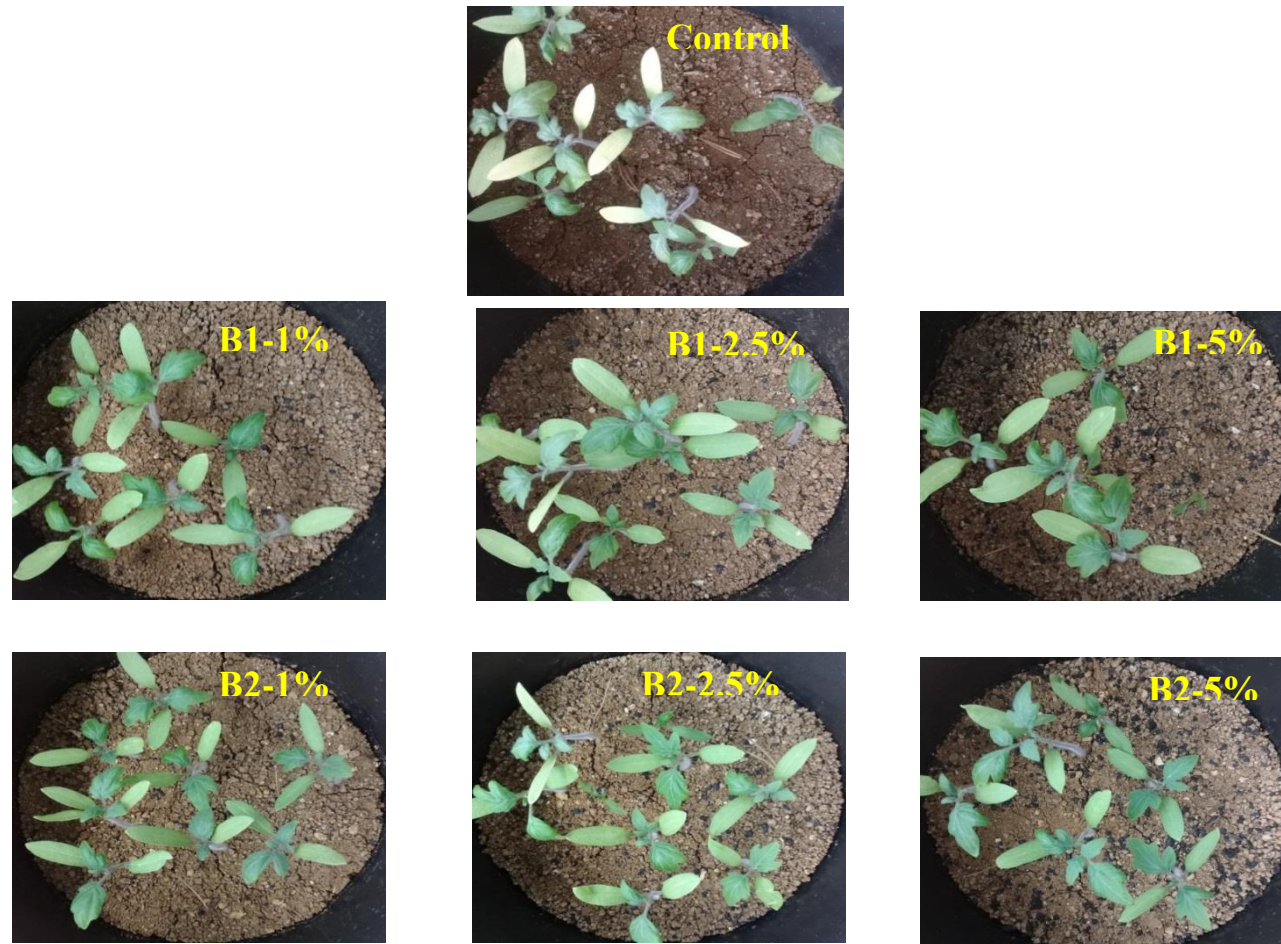


Figure A.2. Photos of tomatoes seeds growth at 7 weeks of cultivation times under OMSW-B (B1-1%, B1-2.5%, B1-5%) and I-OMSW-B (B2-1%, B2-2.5%, B2-5%)

**Table A.1-** Germination index GI of *Cress Zea mays* (maize)

<b>Biochar</b>	<b>Dose</b>	<b>GI (%)</b>
OMSW-B	5%	71.2 ± 1.2
	2.5%	72.3 ± 1.5
	1%	72.0 ± 1.4
I-OMSW-B	5%	69.8 ± 1.4
	2.5%	70.5 ± 1.6
	1%	71.3 ± 1.3
Control	0%	72.5 ± 0.5

**Table A.2** - Results of the Kruskal-Wallis non-parametric global test of significance for each of the biochars and enzymes

<b>Biochar</b>	<b>Enzyme</b>	<b>Chi-sq.</b>	<b>df</b>	<b>p</b>
OMSW-B	Phosphatase	10,385	3	<0.05
OMSW-B	Dehydrogenase	10,385	3	<0.05
OMSW-B	Protease	10,385	3	<0.05
OMSW-B	Urease	10,421	3	<0.05
I-OSMW-B	Phosphatase	10,385	3	<0.05
I-OSMW-B	Dehydrogenase	10,385	3	<0.05
I-OSMW-B	Protease	10,421	3	<0.05
I-OSMW-B	Urease	10,385	3	<0.05

**Table A.3** – Results of mixed models testing the effect of biochar on plant growth, whereas the measured parameter (dependent variable) was plant height over 10 weeks. Random effects (plant and week) not shown.

Fixed effects	Value	Std. error	DF	t-value	p-value
OMSW-B Intercept	11,7	1,0	62	11,6	<0.001
OMSW-B Concentration	0,35	0,1	62	2,9	<0.01
I-OMSW-B Intercept	11,7	0,7	62	15,7	<0.001
I-OMSW-B Concentration	0,44	0,1	62	4	<0.001