

L. Tizzani, A. Gentili, A. Taglienti, S. Bertin, V. Ilardi (2022). Response of carrot seed germination to heat treatment, the emergency measure to reduce the risk of ‘*Candidatus Liberibacter solanacearum*’ seed transmission. *Phytopathologia Mediterranea* 61(3): 515-524. doi: 10.36253/phyto-13958

SUPPORTING INFORMATION

Table S1. Germinability rates, Chi-square test and *post-hoc* multiple comparison test results for heat treatments applied on carrot and parsley seeds. Germinability values are expressed as mean \pm standard deviation of n = 2000 seeds belonging to 5 lots for carrot and n = 800 seeds belonging to 2 lots for parsley.

Treatment	% Germinability	Chi-square value	P value	Significance	Multiple comparison test			
					Comparison	Chi-square	P value	Significance
CARROT					CARROT			
n.t.	90.20 \pm 2.89	120.92	<0.00001	*****	n.t. vs dry	0.54	0.463556	ns
dry	89.5 \pm 3.61				n.t. vs water	88.35	<0.00001	*****
water	79.55 \pm 12.46				dry vs water	78.15	<0.00001	*****
PARSLEY					PARSLEY			
n.t.	95.75 \pm 2.05	16.39	0.000275	***	n.t. vs dry	7.13	0.007559	**
dry	92.63 \pm 3.62				n.t. vs water	16.55	0.000047	****
water	90.63 \pm 3.38				dry vs water	2.08	0.148745	ns

Table S2. Germinability rates, Chi-square test and *post-hoc* multiple comparison test results for heat treatments applied on carrot and parsley Lso-free and Lso-infected seeds. Germinability values are expressed as mean \pm standard deviation of n = 6000 Lso-infected seeds belonging to 15 lots and n = 1200 Lso-free seeds belonging to 3 lots for carrot, and n = 1600 seeds belonging to 4 lots for parsley.

Lso	Treatment	% Germinability	Chi-square value	P value	Significance	Multiple comparison test			
						Comparison	Chi-square	P value	Significance
CARROT						CARROT			
-	n.t.	84.08 \pm 8.98	30.14	<0.00001	*****	dry + vs dry -	11.25	0.000795	***
	dry	79.50 \pm 13.49				dry + vs n.t. +	7.66	0.00563	**
+	n.t.	85.33 \pm 6.71	8.46	0.003624	**	dry + vs n.t. -	0.25	0.618377	ns
	dry	83.50 \pm 7.95				dry - vs n.t. +	25.79	<0.00001	*****
PARSLEY						PARSLEY			
-	n.t.	88.38 \pm 5.37	50.47	<0.00001	*****	n.t. - vs n.t. +	1.23	0.266636	ns
	dry	86.38 \pm 5.54				dry + vs dry -	15.59	0.000079	*****
+	n.t.	93.56 \pm 3.14	90.81 \pm 3.99			dry + vs n.t. +	8.40	0.003752	**
	dry	90.81 \pm 3.99				dry + vs n.t. -	5.10	0.023952	*
						dry - vs n.t. +	45.79	<0.00001	*****
						dry - vs n.t. -	2.90	0.088531	ns
					n.t. - vs n.t. +	26.20	<0.00001	*****	