



STATISTICAL ANALYSIS

Data of efficacy values were analysed using the analysis of variance (ANOVA) procedure by means of SPSS program. When significant differences were found the mean values per treatment (treated vs untreated) and for each assessment time were compared using Pair Comparison test ($p < 0.05$).

Vigour at T_{1+0} was considered as a covariate. Nevertheless, the covariate was removed from the model because it was no significant in any case.

□ ASSESSMENT T_{1+0}

Dependent variable: VIGOUR A T_{1+0}

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
TREATMENT	Hypothesis	0,080	1	0,080	3,000	0,182
	Error	0,080	3	0,027(a)		
BLOCK	Hypothesis	1,180	3	0,393	14,750	0,027
	Error	0,080	3	0,027(a)		

a MS(Error)

There were no significant differences between treatments ($p=0.182$).

□ ASSESSMENT T_{2+0}

Tests of Between-Subjects Effects

Dependent variable: VIGOR T_{2+0}

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
TREATMENT	Hypothesis	0,250	1	0,250	1,111	0,402
	Error	0,450	2	0,225(a)		
VIGOUR AT10	Hypothesis	0,005	1	0,005	0,022	0,895
	Error	0,450	2	0,225(a)		
BLOCK	Hypothesis	0,144	3	0,048	0,213	0,881
	Error	0,450	2	0,225(a)		

a MS(Error)

There were no significant differences between treatments ($p=0.402$).

□ **ASSESSMENT T₃+0**

Tests of Between-Subjects Effects

Dependent variable: VIGOUR T3+0

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
TREATMENT	Hypothesis	1,000	1	1,000	5,000	0,155
	Error	0,400	2	0,200(a)		
VIGOUR AT10	Hypothesis	0,000	1	0,000	0,000	1,000
	Error	0,400	2	0,200(a)		
BLOCK	Hypothesis	0,194	3	0,065	0,324	0,813
	Error	0,400	2	0,200(a)		

a MS(Error)

There were no significant differences between treatments (p=0.155).

□ **ASSESSMENT T₃+14**

Dependent variable: VIGOUR T3+14

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
TREATMENT	Hypothesis	4,410	1	4,410	51,882	0,019
	Error	0,170	2	0,085(a)		
VIGOUR AT10	Hypothesis	0,005	1	0,005	0,059	0,831
	Error	0,170	2	0,085(a)		
BLOCK	Hypothesis	0,273	3	0,091	1,072	0,516
	Error	0,170	2	0,085(a)		

a MS(Error)

There were significant differences between treatments (p=0.019), as consequence, a Pair comparison test was applied.

Pair comparison

Dependent variable: VIGOUR T3+14

(I) TREATMENT	(J) TREATMENT	Mean differences (I- J)	Error	Signification (a)	Confidence Interval at 95 % per difference(a)	
					Inferior limit	Superior limit
HAPPY PLANTS	UTC	2,050(*)	0,171	0,001	1,506	2,594
UTC	HAPPY PLANTS	-2,050(*)	0,171	0,001	-2,594	-1,506

Based on the estimated marginal means.

* Significant differences at $\alpha=0,05$.

a Adjust for multiple comparisons: Lower significant difference (no adjust equivalence).

The asterisk means statistical differences between treatments. Category 'a' was assigned to the treatment and the category 'b' to the control (UTC).