

Appendix 1- Calculation of the number of experimental repetitions.

Tratament	Degree of freedom (residue)	T_alfa (5%) bilateral	T_Beta (5%) (unilateral)	s	s^2	d	Number (suggested repeat)	Number (calculated repetition)
4	12	2.179	1.782	0.15	0.0225	0.268	3	9.636352941
4	16	2.12	1.746	0.15	0.0225	0.268	4	8.96571389
4	20	2.086	1.725	0.15	0.0225	0.268	5	8.591822138
4	24	2.064	1.711	0.15	0.0225	0.268	6	8.352559618
4	28	2.048	1.701	0.15	0.0225	0.268	7	8.182624691
4	32	2.0372	1.6942	0.15	0.0225	0.268	8	8.068876676
4	36	2.0282	1.6888	0.15	0.0225	0.268	9	7.976722532
4	40	2.021	1.684	0.15	0.0225	0.268	10	7.900226427

Number of repetitions: $= 2 * s^2 * (t\alpha + t\beta) * (t\alpha + t\beta) / d^2$. Where r = calculated number of repetitions. s^2 = variance of the reference data. $t\alpha$ = probability of type 1 error as a function of the degree of freedom of the residue. $t\beta$ = probability of type 2 error as a function of the degree of freedom of the residue. d = minimum distance between means.