

Apéndice K Análisis estadístico de comparación de actividad enzimática de la PPO con Tratamiento 1 y 2 .

UAE versus Temperatura, Tiempo

Factor	Type	Levels	Values
Temperatura	fixed	2	27, 45
Tiempo	fixed	6	0, 5, 10, 20, 30, 40

Analysis of Variance for ACTividad, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
Temperatura	1	13807	13807	13807	443.00	0.000
Tiempo	5	741566	741566	148313	4758.75	0.000
Temperatura*Tiempo	5	95366	95366	19073	611.98	0.000
Error	60	1870	1870	31		
Total	71	852608				

S = 5.58269 R-Sq = 99.78% R-Sq(adj) = 99.74%

Tukey Simultaneous Tests

Response Variable ACTividad

All Pairwise Comparisons among Levels of Temperatura*Tiempo

Temperatura = 27

Tiempo = 0 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
27	5	-119.1	3.223	-36.95	0.0000
27	10	-167.7	3.223	-52.02	0.0000
27	20	-177.5	3.223	-55.06	0.0000
27	30	-197.1	3.223	-61.15	0.0000
27	40	-198.7	3.223	-61.63	0.0000
45	0	185.3	3.223	57.48	0.0000
45	5	-159.9	3.223	-49.61	0.0000
45	10	-147.8	3.223	-45.86	0.0000
45	20	-176.1	3.223	-54.65	0.0000
45	30	-195.3	3.223	-60.59	0.0000
45	40	-200.0	3.223	-62.04	0.0000

Temperatura = 27

Tiempo = 5 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
27	10	-48.58	3.223	-15.07	0.0000
27	20	-58.38	3.223	-18.11	0.0000
27	30	-78.01	3.223	-24.20	0.0000
27	40	-79.56	3.223	-24.68	0.0000
45	0	304.35	3.223	94.43	0.0000
45	5	-40.81	3.223	-12.66	0.0000
45	10	-28.71	3.223	-8.91	0.0000

45	20	-57.05	3.223	-17.70	0.0000
45	30	-76.19	3.223	-23.64	0.0000
45	40	-80.86	3.223	-25.09	0.0000

Temperatura = 27
Tiempo = 10 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
27	20	-9.80	3.223	-3.04	0.1223
27	30	-29.43	3.223	-9.13	0.0000
27	40	-30.98	3.223	-9.61	0.0000
45	0	352.93	3.223	109.50	0.0000
45	5	7.77	3.223	2.41	0.4159
45	10	19.87	3.223	6.16	0.0000
45	20	-8.47	3.223	-2.63	0.0086
45	30	-27.61	3.223	-8.57	0.0000
45	40	-32.28	3.223	-10.02	0.0000

Temperatura = 27
Tiempo = 20 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
27	30	-19.63	3.223	-6.091	0.0000
27	40	-21.18	3.223	-6.572	0.0000
45	0	362.73	3.223	112.539	0.0000
45	5	17.57	3.223	5.450	0.0001
45	10	29.67	3.223	9.204	0.0000
45	20	1.33	3.223	0.414	0.0000
45	30	-17.81	3.223	-5.527	0.0001
45	40	-22.48	3.223	-6.976	0.0000

Temperatura = 27
Tiempo = 30 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
27	40	-1.550	3.223	-0.481	0.0182
45	0	382.367	3.223	118.631	0.0000
45	5	37.200	3.223	11.541	0.0000
45	10	49.300	3.223	15.296	0.0000
45	20	20.967	3.223	6.505	0.0000
45	30	1.819	3.223	0.564	1.0000
45	40	-2.850	3.223	-0.884	0.9991

Temperatura = 27
Tiempo = 40 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
45	0	383.917	3.223	119.112	0.0000
45	5	38.750	3.223	12.022	0.0000
45	10	50.850	3.223	15.776	0.0000
45	20	22.517	3.223	6.986	0.0000
45	30	3.369	3.223	1.045	0.9958
45	40	-1.300	3.223	-0.403	1.0000

Temperatura = 45
Tiempo = 0 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
45	5	-345.2	3.223	-107.1	0.0000
45	10	-333.1	3.223	-103.3	0.0000
45	20	-361.4	3.223	-112.1	0.0000
45	30	-380.5	3.223	-118.1	0.0000
45	40	-385.2	3.223	-119.5	0.0000

Temperatura = 45
Tiempo = 5 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
45	10	12.10	3.223	3.75	0.0186
45	20	-16.23	3.223	-5.04	0.0003
45	30	-35.38	3.223	-10.98	0.0000
45	40	-40.05	3.223	-12.43	0.0000

Temperatura = 45
Tiempo = 10 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
45	20	-28.33	3.223	-8.79	0.0000
45	30	-47.48	3.223	-14.73	0.0000
45	40	-52.15	3.223	-16.18	0.0000

Temperatura = 45
Tiempo = 20 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
45	30	-19.15	3.223	-5.941	0.0000
45	40	-23.82	3.223	-7.389	0.0000

Temperatura = 45
Tiempo = 30 subtracted from:

Temperatura	Tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
45	40	-4.669	3.223	-1.449	0.9483