

Apéndice M Análisis estadístico de actividad enzimática de la PPO en jugo de manzana a diferentes tiempos de tratamiento con térmico.

Tratamiento de 27°C

Factor	Type	Levels	Values
Temperat	fixed	6	27 32 38 43 47 52

Analysis of Variance for Tratamie, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
Temperat	5	11454.3	11454.3	2290.9	73.47	0.000
Error	12	374.2	374.2	31.2		
Total	17	11828.5				

Tukey 95.0% Simultaneous Confidence Intervals

Response Variable Tratamie

All Pairwise Comparisons among Levels of Temperat

Temperat = 27 subtracted from:

Level	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
32	-1.77	4.559	-0.39	0.9985
38	-19.13	4.559	-4.20	0.0122
43	-14.16	4.559	-3.11	0.0261
47	-51.31	4.559	-11.25	0.0000
52	-67.56	4.559	-14.82	0.0000

Temperat = 32 subtracted from:

Level	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
38	-17.36	4.559	-3.81	0.0235
43	-12.39	4.559	-2.72	0.0421
47	-49.54	4.559	-10.87	0.0000
52	-65.80	4.559	-14.43	0.0000

Temperat = 38 subtracted from:

Level	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
43	4.97	4.559	1.09	0.8767
47	-32.19	4.559	-7.06	0.0002
52	-48.44	4.559	-10.62	0.0000

Temperat = 43 subtracted from:

Level	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
47	-37.15	4.559	-8.15	0.0000
52	-53.40	4.559	-11.71	0.0000

Temperat = 47 subtracted from:

Level	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
52	-53.40	4.559	-11.71	0.0000

52	-16.25	4.559	-3.565	0.0354
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Tratamiento de 45°C

Actividad enzimática versus Temperatura (°C)

Factor	Type	Levels	Values
fixed	6	45 50 55 65 72 78	

Analysis of Variance for AE, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
Temperat	5	90501	90501	18100	172.12	0.000
Error	12	1262	1262	105		
Total	17	91763				

Tukey 95.0% Simultaneous Confidence Intervals

Response Variable AE

All Pairwise Comparisons among Levels of Temperat

Temperat = 45 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
Temperat	of Means	Difference		P-Value
50	-18.0	8.373	-2.15	0.3280
55	-41.5	8.373	-4.96	0.0035
65	-69.0	8.373	-8.24	0.0000
72	-78.0	8.373	-9.32	0.0000
78	-217.3	8.373	-25.95	0.0000

Temperat = 50 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
Temperat	of Means	Difference		P-Value
55	-23.5	8.373	-2.81	0.0227
65	-51.0	8.373	-6.09	0.0006
72	-60.0	8.373	-7.17	0.0001
78	-199.3	8.373	-23.80	0.0000

Temperat = 55 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
Temperat	of Means	Difference		P-Value
65	-27.5	8.373	-3.28	0.0471
72	-36.5	8.373	-4.36	0.0093
78	-175.8	8.373	-20.99	0.0000

Temperat = 65 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
Temperat	of Means	Difference		P-Value
72	-9.0	8.373	-1.08	0.8802
78	-148.3	8.373	-17.71	0.0000

Temperat = 72 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
Temperat	of Means	Difference		P-Value
78	-139.2	8.373	-16.63	0.0000