

## Apéndice G Análisis estadístico de parámetros de color en jugo almacenado durante 36 horas a 4°C.

L versus tiempo

Factor	Type	Levels	Values
tiempo	fixed	5	0 2 8 16 24

Analysis of Variance for L, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
tiempo	4	349.828	349.828	87.457	3.1E+04	0.000
Error	10	0.028	0.028	0.003		
Total	14	349.856				

Tukey 95.0% Simultaneous Confidence Intervals  
Response Variable L  
All Pairwise Comparisons among Levels of tiempo

tiempo = 0 subtracted from:

Level tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
2	-10.51	0.04315	-243.5	0.0000
8	-10.89	0.04315	-252.3	0.0000
16	-13.75	0.04315	-318.6	0.0000
24	-11.83	0.04315	-274.2	0.0000

tiempo = 2 subtracted from:

Level tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
8	-0.380	0.04315	-8.81	0.0000
16	-3.240	0.04315	-75.08	0.0000
24	-1.327	0.04315	-30.74	0.0000

tiempo = 8 subtracted from:

Level tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
16	-2.860	0.04315	-66.28	0.0000
24	-0.947	0.04315	-21.94	0.0000

tiempo = 16 subtracted from:

Level tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
24	1.913	0.04315	44.34	0.0000

**a versus tiempo**

Factor	Type	Levels	Values
tiempo	fixed	5	0 2 8 16 24

Analysis of Variance for a, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
tiempo	4	58.109	58.109	14.527	158.56	0.000
Error	10	0.916	0.916	0.092		
Total	14	59.025				

Tukey 95.0% Simultaneous Confidence Intervals  
Response Variable a

tiempo = 0 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
tiempo	of Means	Difference		P-Value
2	1.077	0.2471	4.356	0.0097
8	1.777	0.2471	7.189	0.0002
16	5.610	0.2471	22.699	0.0000
24	3.480	0.2471	14.081	0.0000

tiempo = 2 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
tiempo	of Means	Difference		P-Value
8	0.7000	0.2471	2.832	0.1014
16	4.5333	0.2471	18.343	0.0000
24	2.4033	0.2471	9.724	0.0000

tiempo = 8 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
tiempo	of Means	Difference		P-Value
16	3.833	0.2471	15.511	0.0000
24	1.703	0.2471	6.892	0.0003

tiempo = 16 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
tiempo	of Means	Difference		P-Value
24	-2.130	0.2471	-8.618	0.0001

**b versus tiempo**

Factor	Type	Levels	Values
tiempo	fixed	5	0 2 8 16 24

Analysis of Variance for b, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
tiempo	4	144.512	144.512	36.128	151.18	0.000
Error	10	2.390	2.390	0.239		
Total	14	146.902				

Tukey 95.0% Simultaneous Confidence Intervals  
 Response Variable b  
 All Pairwise Comparisons among Levels of tiempo

tiempo = 0 subtracted from:

Level tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
2	-8.180	0.3991	-20.49	0.0000
8	-7.113	0.3991	-17.82	0.0000
16	-8.350	0.3991	-20.92	0.0000
24	-4.983	0.3991	-12.49	0.0000

tiempo = 2 subtracted from:

Level tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
8	1.0667	0.3991	2.6724	0.1290
16	-0.1700	0.3991	-0.4259	0.9920
24	3.1967	0.3991	8.0088	0.0001

tiempo = 8 subtracted from:

Level tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
16	-1.237	0.3991	-3.098	0.0674
24	2.130	0.3991	5.336	0.0024

tiempo = 16 subtracted from:

Level tiempo	Difference of Means	SE of Difference	T-Value	Adjusted P-Value
24	3.367	0.3991	8.435	0.0001

**$\Delta E$  versus tiempo**

Factor	Type	Levels	Values
tiempo	fixed	5	2 8 16 24 36

Analysis of Variance for DE, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
tiempo	4	24.8904	24.8904	6.2226	112.58	0.000
Error	10	0.5527	0.5527	0.0553		
Total	14	25.4432				

Tukey 95.0% Simultaneous Confidence Intervals  
 Response Variable DE  
 All Pairwise Comparisons among Levels of tiempo

tiempo = 2 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
tiempo	of Means	Difference		P-Value
8	-0.2300	0.1920	-1.198	0.7527
16	3.0933	0.1920	16.114	0.0000
24	-0.0467	0.1920	-0.243	0.0091
36	1.6100	0.1920	8.387	0.0001

tiempo = 8 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
tiempo	of Means	Difference		P-Value
16	3.3233	0.1920	17.3126	0.0000
24	0.1833	0.1920	0.9551	0.0588
36	1.8400	0.1920	9.5853	0.0000

tiempo = 16 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
tiempo	of Means	Difference		P-Value
24	-3.140	0.1920	-16.36	0.0000
36	-1.483	0.1920	-7.73	0.0001

tiempo = 24 subtracted from:

Level	Difference	SE of	T-Value	Adjusted
tiempo	of Means	Difference		P-Value
36	1.657	0.1920	8.630	0.0001