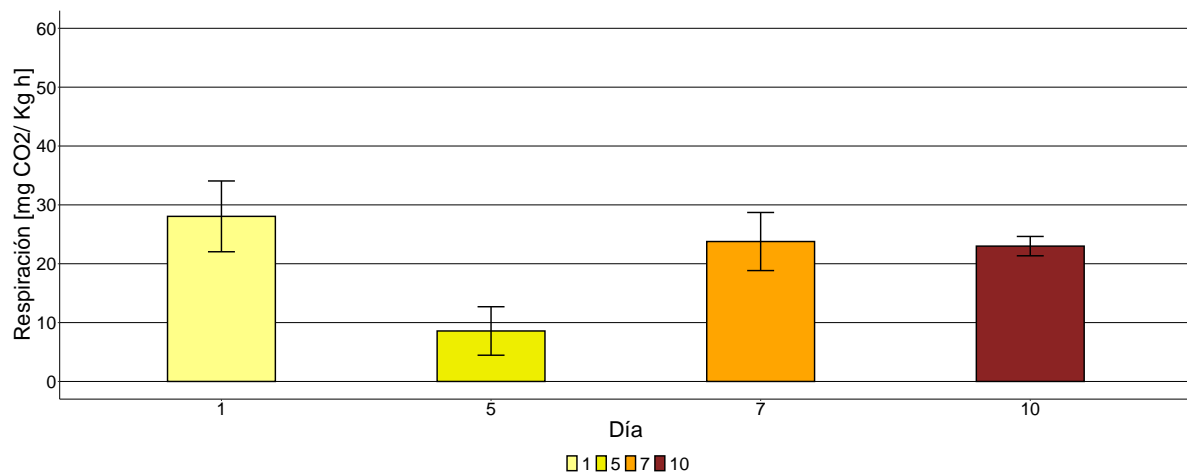


# Conservación a 1°C

## Respiración

Tabla resumen

```
## # A tibble: 4 x 4
##   Día      n Mean_resp sd_resp
##   <fct> <int>   <dbl>   <dbl>
## 1 1      3    28.0     6.01
## 2 5      3     8.58    4.12
## 3 7      3    23.8     4.94
## 4 10     2    23.0     1.64
```



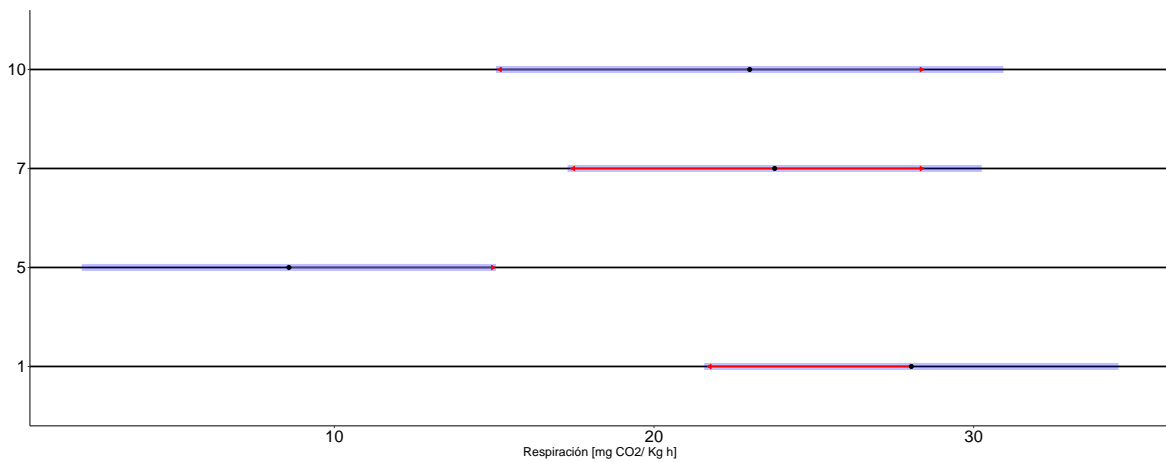
Modelo

```
## lm(formula = respiracion ~ Día, data = data_resp)
```

Análisis de regresión

```
## Analysis of Variance Table
##
## Response: respiracion
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Día         3  641.71   213.905   9.4964 0.007299 **
## Residuals   7  157.67    22.525
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

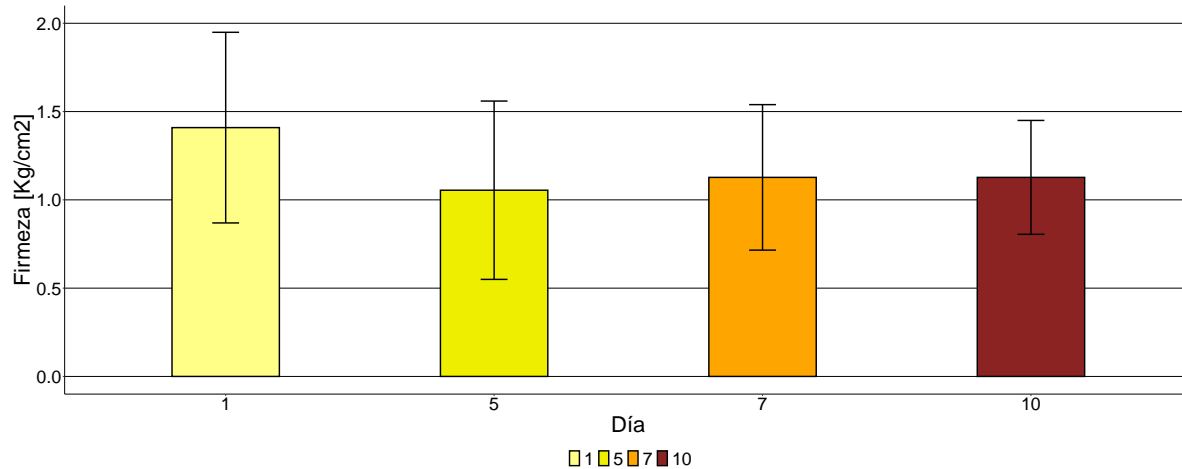
```
## $emmeans
## Día emmean SE df lower.CL upper.CL
## 1 28.05 2.74 7 21.6 34.5
## 5 8.58 2.74 7 2.1 15.1
## 7 23.77 2.74 7 17.3 30.3
## 10 22.99 3.36 7 15.1 30.9
##
## Confidence level used: 0.95
##
## $contrasts
## contrast estimate SE df t.ratio p.value
## Día1 - Día5 19.471 3.88 7 5.025 0.0064
## Día1 - Día7 4.275 3.88 7 1.103 0.6991
## Día1 - Día10 5.056 4.33 7 1.167 0.6640
## Día5 - Día7 -15.196 3.88 7 -3.922 0.0231
## Día5 - Día10 -14.415 4.33 7 -3.327 0.0489
## Día7 - Día10 0.781 4.33 7 0.180 0.9977
##
## P value adjustment: tukey method for comparing a family of 4 estimates
```



## Firmeza

Tabla resumen

```
## # A tibble: 4 x 4
## Día n Mean_firmeza sd_firmeza
## <fct> <int> <dbl> <dbl>
## 1 1 22 1.41 0.540
## 2 5 22 1.05 0.505
## 3 7 22 1.13 0.412
## 4 10 22 1.13 0.322
```



Modelo

```
## lm(formula = Firmeza ~ Día, data = data_fisico)
```

Análisis de la varianza

```
## Analysis of Variance Table
```

```
##
```

```
## Response: Firmeza
```

```
##          Df Sum Sq Mean Sq F value Pr(>F)
```

```
## Día        3  1.6232  0.54106   2.6393 0.05477 .
```

```
## Residuals 84 17.2200  0.20500
```

```
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
## $emmeans
```

```
##   Día emmean      SE df lower.CL upper.CL
```

```
## 1      1.41 0.0965 84      1.217      1.60
```

```
## 5      1.05 0.0965 84      0.863      1.25
```

```
## 7      1.13 0.0965 84      0.935      1.32
```

```
## 10     1.13 0.0965 84      0.935      1.32
```

```
##
```

```
## Confidence level used: 0.95
```

```
##
```

```
## $contrasts
```

```
## contrast      estimate      SE df t.ratio p.value
```

```
## Día1 - Día5      0.3545 0.137 84      2.597  0.0531
```

```
## Día1 - Día7      0.2818 0.137 84      2.064  0.1733
```

```
## Día1 - Día10     0.2818 0.137 84      2.064  0.1733
```

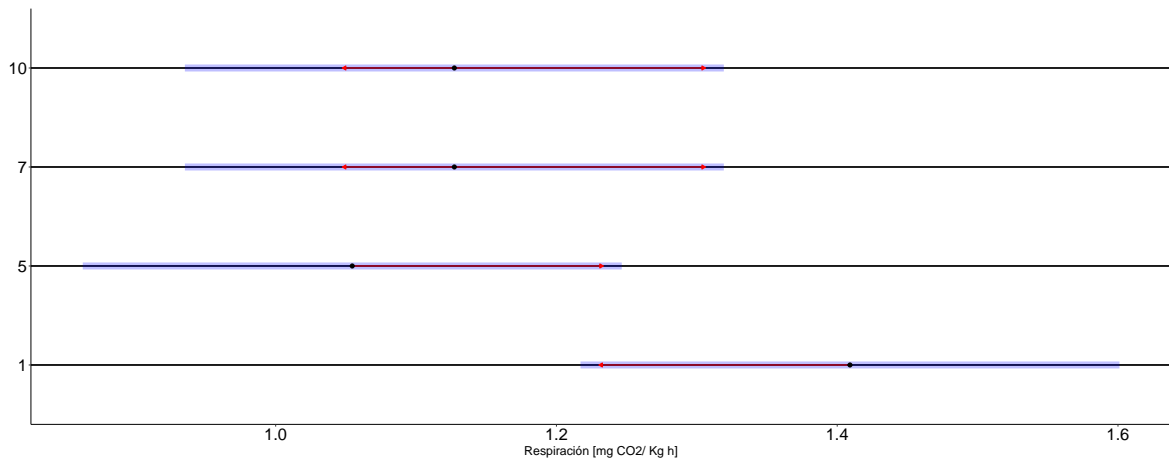
```
## Día5 - Día7     -0.0727 0.137 84     -0.533  0.9509
```

```
## Día5 - Día10    -0.0727 0.137 84     -0.533  0.9509
```

```
## Día7 - Día10      0.0000 0.137 84      0.000  1.0000
```

```
##
```

```
## P value adjustment: tukey method for comparing a family of 4 estimates
```

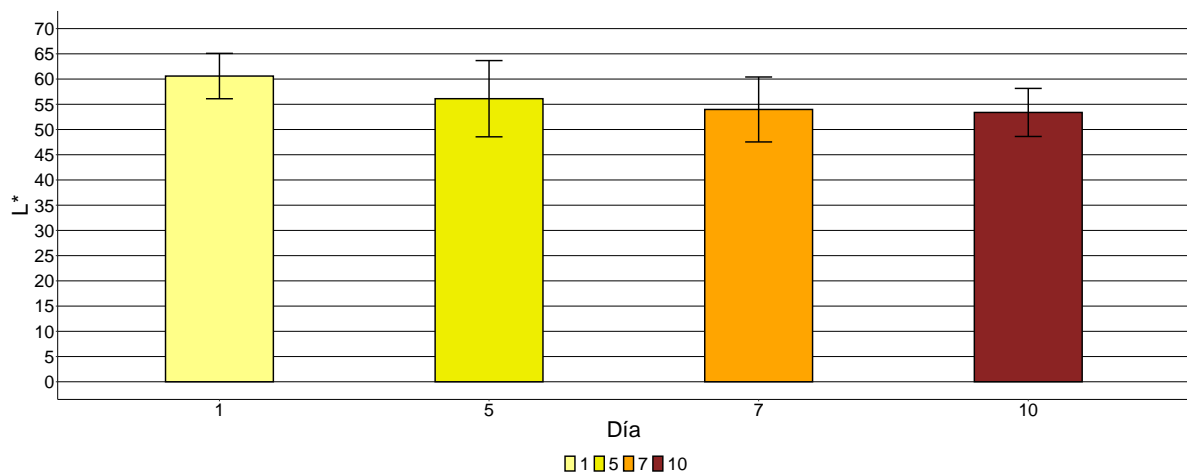


## Colorimetría

**L\***

Tabla resumen

```
## # A tibble: 4 x 4
##   Día      n Mean_L_color sd_L_color
##   <fct> <int>      <dbl>      <dbl>
## 1 1      24      60.6        4.50
## 2 5      24      56.1        7.55
## 3 7      24      54.0        6.44
## 4 10     24      53.4        4.76
```



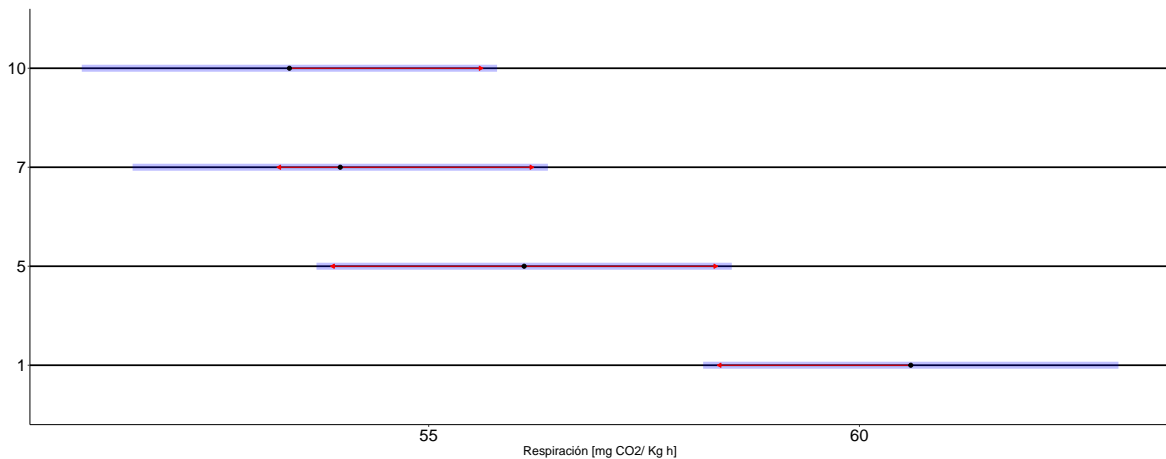
Modelo

```
## lm(formula = L_color ~ Día, data = data_fisico)
```

Análisis de la varianza

```
## Analysis of Variance Table
##
## Response: L_color
##           Df Sum Sq Mean Sq F value Pr(>F)
## Día         3  770.2  256.724   7.2618  2e-04 ***
## Residuals   92 3252.5   35.353
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## $emmeans
##   Día emmean    SE df lower.CL upper.CL
## 1     60.6 1.21 92     58.2     63.0
## 5     56.1 1.21 92     53.7     58.5
## 7     54.0 1.21 92     51.6     56.4
## 10    53.4 1.21 92     51.0     55.8
##
## Confidence level used: 0.95
##
## $contrasts
##   contrast      estimate    SE df t.ratio p.value
## Dia1 - Dia5      4.49 1.72 92    2.615 0.0502
## Dia1 - Dia7      6.62 1.72 92    3.859 0.0012
## Dia1 - Dia10     7.21 1.72 92    4.202 0.0004
## Dia5 - Dia7      2.13 1.72 92    1.244 0.6009
## Dia5 - Dia10     2.72 1.72 92    1.587 0.3908
## Dia7 - Dia10     0.59 1.72 92    0.344 0.9859
##
## P value adjustment: tukey method for comparing a family of 4 estimates
```

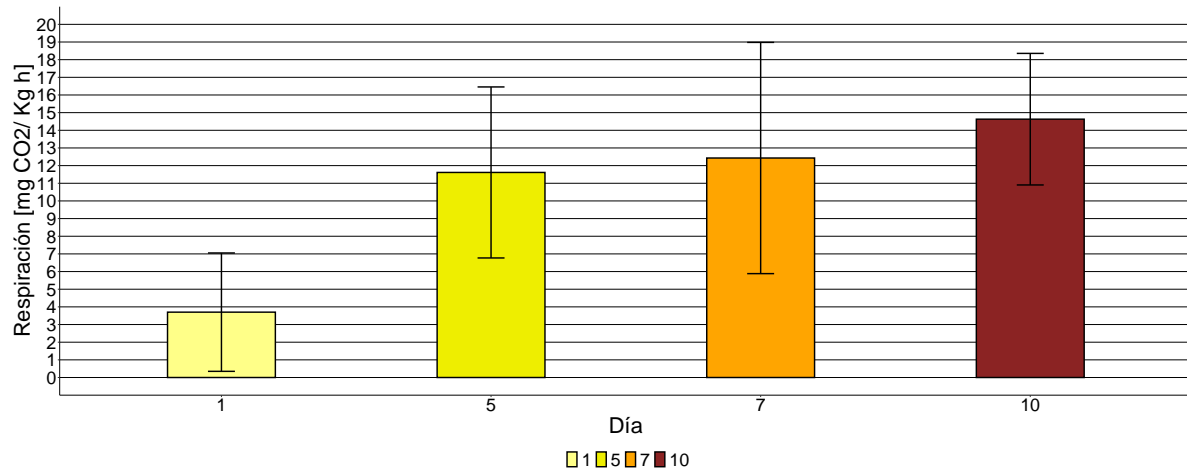


a\*

Tabla resumen

```
## # A tibble: 4 x 4
##   Día      n Mean_a_color sd_a_color
##   <fct> <int>      <dbl>      <dbl>
## 1 1      24      3.70      3.35
```

```
## 2 5      24      11.6      4.84
## 3 7      24      12.4      6.55
## 4 10     24      14.6      3.72
```



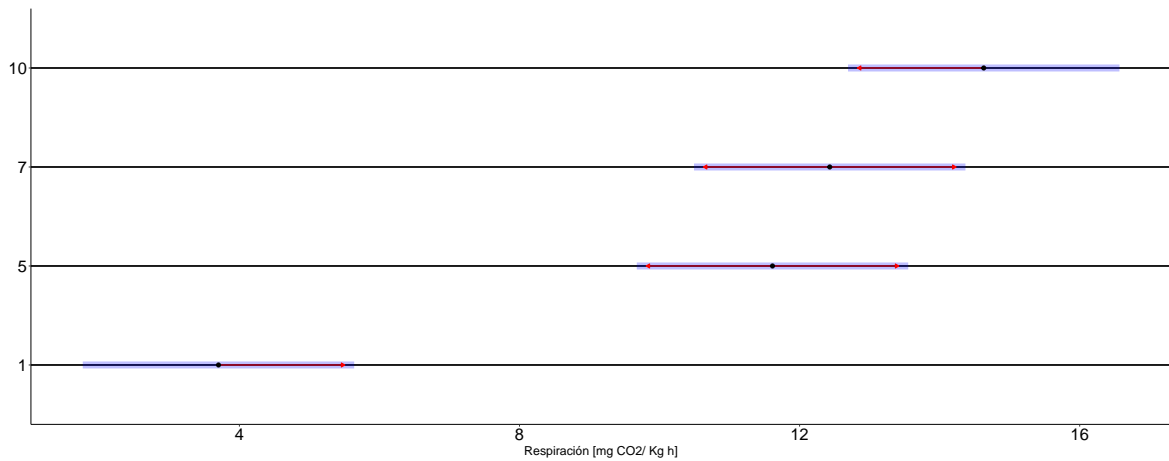
Modelo

```
## lm(formula = a_color ~ Día, data = data_fisico)
```

Análisis de la varianza

```
## Analysis of Variance Table
##
## Response: a_color
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Día         3 1637.0   545.65  23.872 1.629e-11 ***
## Residuals  92 2102.9    22.86
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

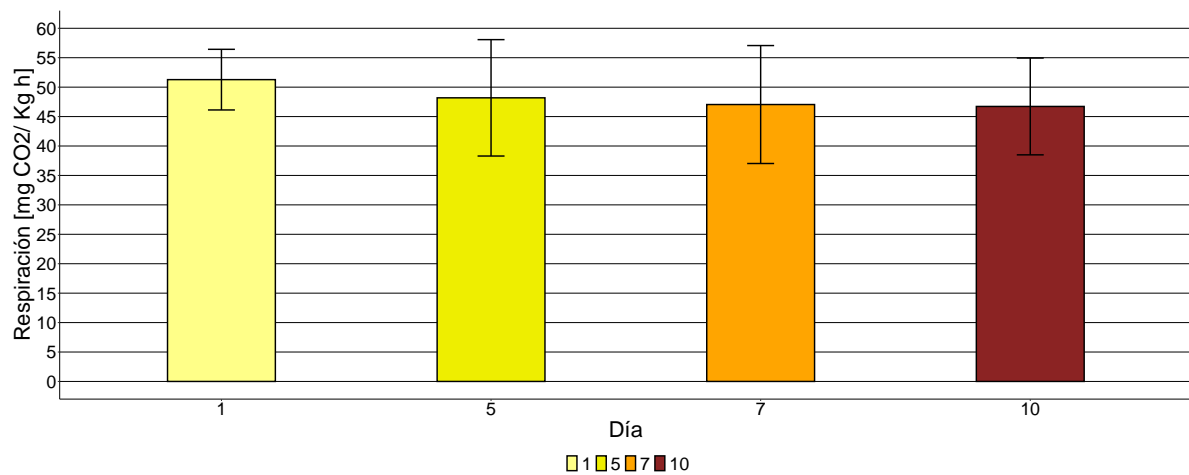
```
## $emmeans
##   Día emmean    SE df lower.CL upper.CL
## 1      3.7 0.976 92     1.76     5.64
## 5     11.6 0.976 92     9.67    13.55
## 7     12.4 0.976 92    10.49    14.37
## 10     14.6 0.976 92    12.69    16.57
##
## Confidence level used: 0.95
##
## $contrasts
##   contrast      estimate    SE df t.ratio p.value
## Día1 - Día5    -7.912 1.38 92   -5.732 <.0001
## Día1 - Día7    -8.729 1.38 92   -6.325 <.0001
## Día1 - Día10  -10.928 1.38 92   -7.918 <.0001
## Día5 - Día7     -0.818 1.38 92   -0.592 0.9342
## Día5 - Día10   -3.017 1.38 92   -2.186 0.1349
## Día7 - Día10   -2.199 1.38 92   -1.593 0.3874
##
## P value adjustment: tukey method for comparing a family of 4 estimates
```



**b\***

Tabla resumen

```
## # A tibble: 4 x 4
##   Día      n Mean_b_color sd_b_color
##   <fct> <int>      <dbl>      <dbl>
## 1 1      24      51.3      5.15
## 2 5      24      48.2     9.89
## 3 7      24      47.0    10.0
## 4 10     24      46.7     8.22
```



Modelo

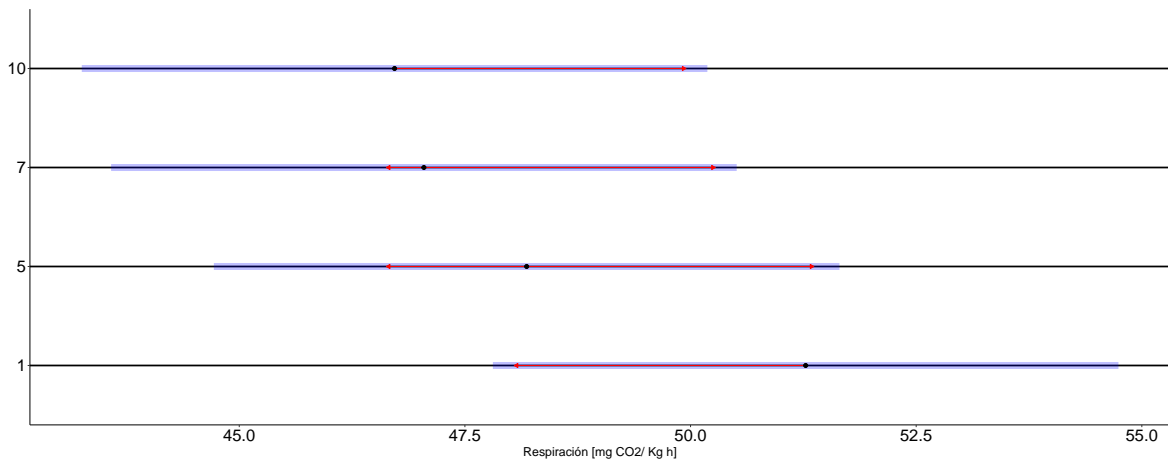
```
## lm(formula = b_color ~ Día, data = data_fisico)
```

Análisis de la varianza

```
## Analysis of Variance Table
##
```

```
## Response: b_color
##           Df Sum Sq Mean Sq F value Pr(>F)
## Día       3  310.4  103.464   1.4158 0.2432
## Residuals 92 6723.2   73.079

## $emmeans
##   Día emmean    SE df lower.CL upper.CL
## 1     51.3  1.74 92     47.8     54.7
## 5     48.2  1.74 92     44.7     51.6
## 7     47.0  1.74 92     43.6     50.5
## 10    46.7  1.74 92     43.3     50.2
##
## Confidence level used: 0.95
##
## $contrasts
##   contrast      estimate    SE df t.ratio p.value
## Día1 - Día5      3.091  2.47 92   1.253 0.5952
## Día1 - Día7      4.230  2.47 92   1.714 0.3224
## Día1 - Día10     4.555  2.47 92   1.846 0.2589
## Día5 - Día7      1.138  2.47 92   0.461 0.9672
## Día5 - Día10     1.463  2.47 92   0.593 0.9340
## Día7 - Día10     0.325  2.47 92   0.132 0.9992
##
## P value adjustment: tukey method for comparing a family of 4 estimates
```



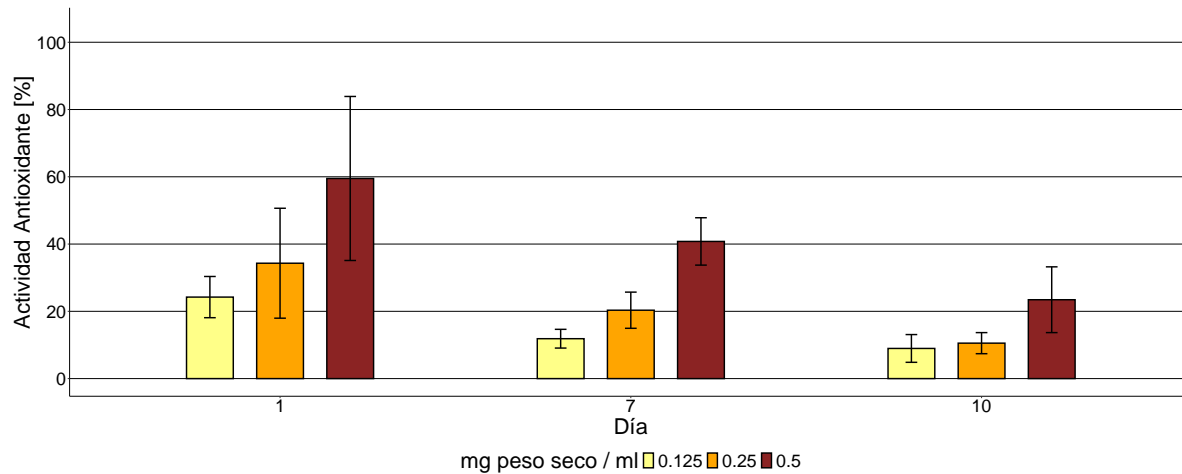
## Actividad antioxidante

Tabla resumen

```
## # A tibble: 9 x 5
## # Groups:   Día [3]
##   Día  Conc     n Mean_aao sd_aao
##   <fct> <fct> <int>   <dbl> <dbl>
## 1 1     0.125     3    24.2    6.13
## 2 1     0.25     3    34.3   16.3
## 3 1     0.5      3    59.5   24.4
```



##	4	7	0.125	3	11.9	2.79
##	5	7	0.25	3	20.3	5.38
##	6	7	0.5	3	40.8	7.04
##	7	10	0.125	3	8.96	4.13
##	8	10	0.25	3	10.5	3.13
##	9	10	0.5	3	23.4	9.78



#### Modelo

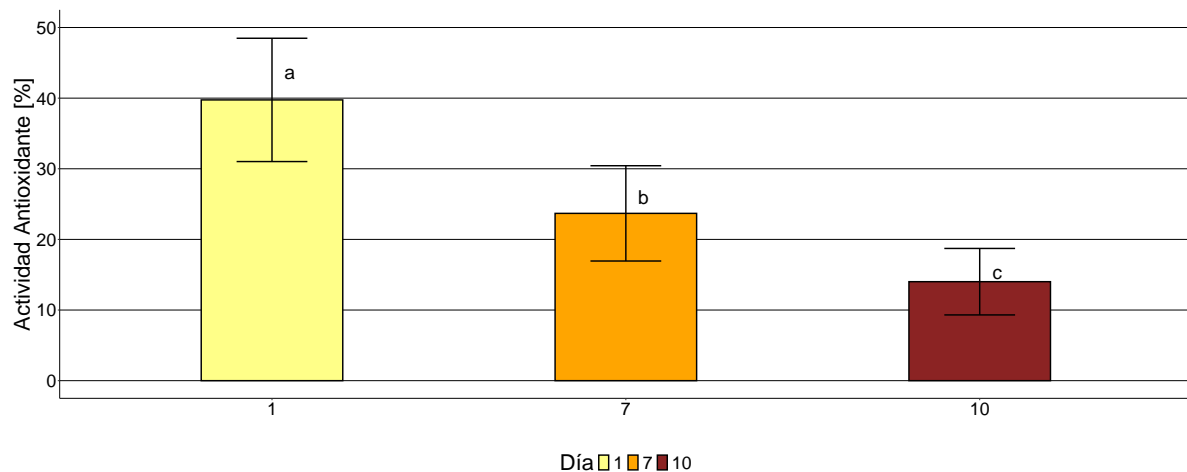
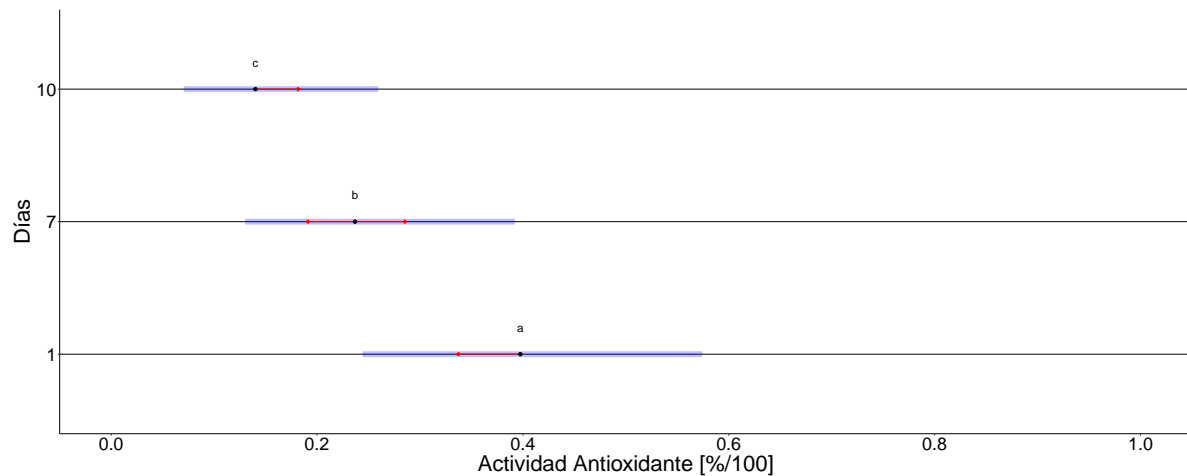
```
## Formula:          aao/100 ~ Día + (1 | Conc)
## Data: data_aao
##      AIC      BIC    logLik df.resid
## -39.01704 -32.53785  24.50852     22
## Random-effects (co)variances:
##
## Conditional model:
## Groups Name      Std.Dev.
## Conc (Intercept) 0.5742
##
## Number of obs: 27 / Conditional model: Conc, 3
##
## Dispersion parameter for beta family (): 20.1
##
## Fixed Effects:
##
## Conditional model:
## (Intercept)      Día7      Día10
##      -0.4159      -0.7540     -1.3981
```

#### Anova

```
## Analysis of Deviance Table (Type II Wald chisquare tests)
##
## Response: aao/100
##      Chisq Df Pr(>Chisq)
## Día 31.692  2  1.313e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

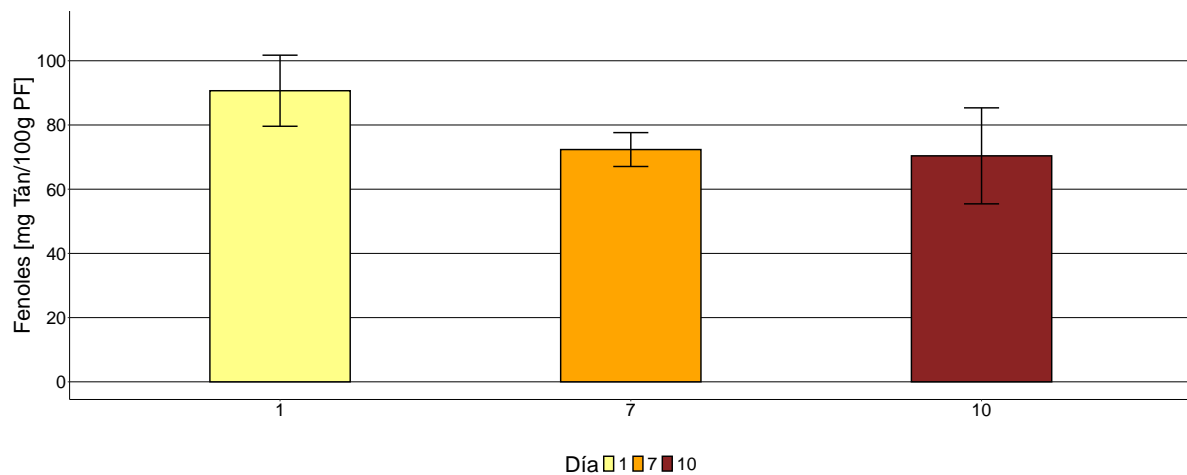
## Comparaciones a posteriori

```
## $semmeans
## Día response      SE df asymp.LCL asymp.UCL
## 1  0.3974921 0.08728567 Inf 0.24411366 0.5740528
## 7  0.2368605 0.06745631 Inf 0.12994994 0.3920896
## 10 0.1401488 0.04706122 Inf 0.07047125 0.2594869
##
## Confidence level used: 0.95
## Intervals are back-transformed from the logit scale
##
## $contrasts
## contrast      odds.ratio      SE df asymp.LCL asymp.UCL
## Día1 / Día7    2.125578 0.4830323 Inf 1.247877 3.620615
## Día1 / Día10   4.047621 1.0261822 Inf 2.234321 7.332535
## Día7 / Día10   1.904245 0.4968901 Inf 1.033060 3.510107
##
## Confidence level used: 0.95
## Conf-level adjustment: tukey method for comparing a family of 3 estimates
## Intervals are back-transformed from the log odds ratio scale
```



## Fenoles

```
## # A tibble: 3 x 4
##   Día      n Mean_fenoles sd_fenoles
##   <fct> <int>      <dbl>      <dbl>
## 1 1         3      90.7      11.1
## 2 7         3      72.3       5.28
## 3 10        3      70.4      14.9
```



## Modelo

```
## lm(formula = Fenoles ~ Día, data = data)
```

## Análisis de regresión

```
##
## Call:
## lm(formula = Fenoles ~ Día, data = data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -10.928  -6.480  -5.037   4.685  19.977
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   98.083      9.897   9.910 2.27e-05 ***
## Día          -10.141      4.581  -2.213  0.0625 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 11.22 on 7 degrees of freedom
## Multiple R-squared:  0.4117, Adjusted R-squared:  0.3277
## F-statistic:  4.9 on 1 and 7 DF, p-value: 0.06247
```

Por cada día transcurrido los frutos pierden en promedio -2.37 mg eq. Tan/100g PF ( $p=0.041$ )

## Análisis de la varianza

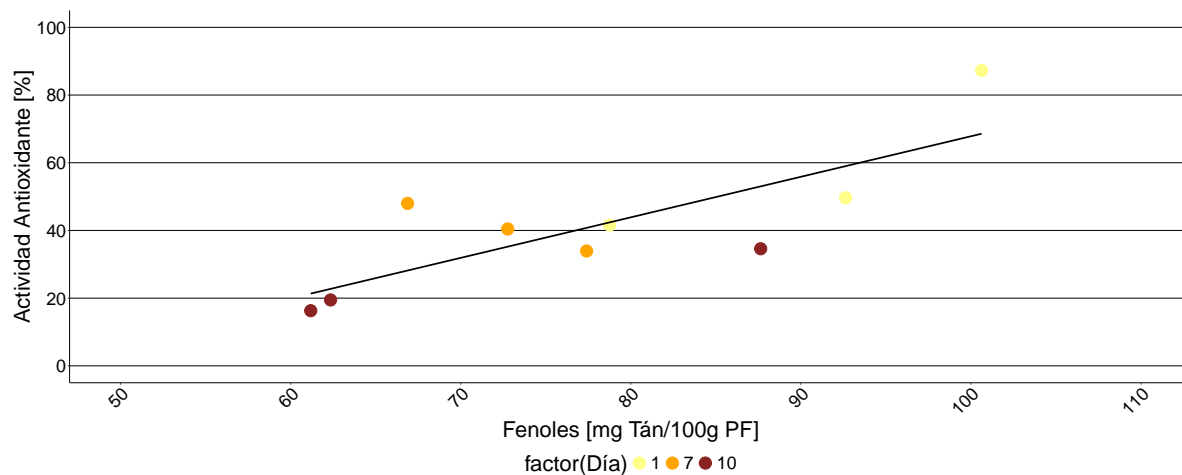
```
## Analysis of Variance Table
##
## Response: Fenoles
##           Df Sum Sq Mean Sq F value Pr(>F)
## Día         2  750.90   375.45   3.0129 0.1242
## Residuals    6  747.68   124.61
```

## Correlación AAO y fenoles

```
##
## Call:
## lm(formula = aao ~ Fenoles, data = data3)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -18.432  -6.848  -3.266   5.223  19.832
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -51.9147    27.5612  -1.884   0.102
## Fenoles       1.1974     0.3495   3.426   0.011 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 13.53 on 7 degrees of freedom
## Multiple R-squared:  0.6264, Adjusted R-squared:  0.5731
## F-statistic: 11.74 on 1 and 7 DF,  p-value: 0.01104

## [1] 0.791479
```

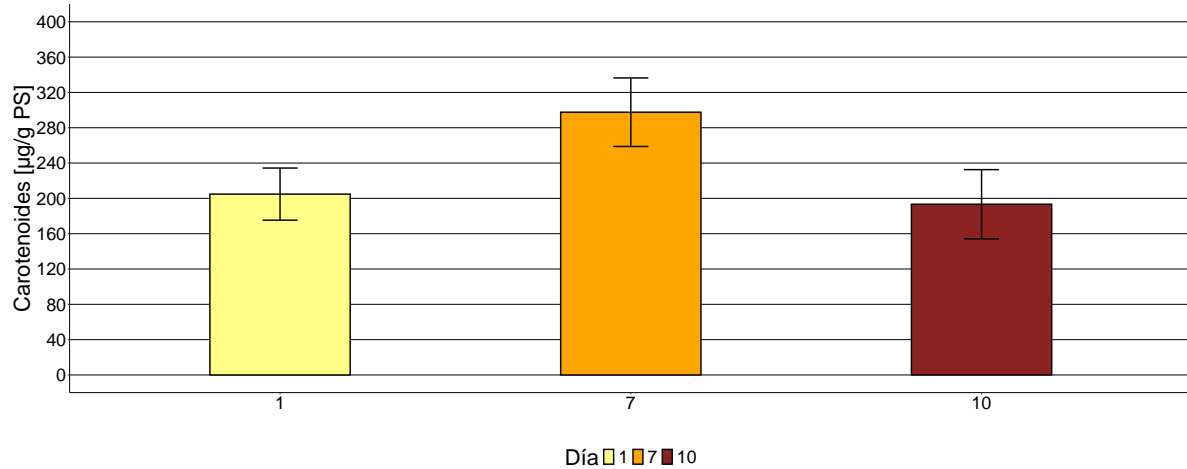
Hay evidencia para aceptar que  $\beta_1$  difiere de cero ( $r = 0.791$ , valor  $p = 0.011$  )



## Carotenoides

```
## # A tibble: 3 x 4
```

```
##   Día      n Mean_Carotenoides sd_Carotenoides
##   <fct> <int>          <dbl>          <dbl>
## 1 1      6      205.          29.5
## 2 7      6      298.          38.8
## 3 10     6      193.          39.2
```



Modelo

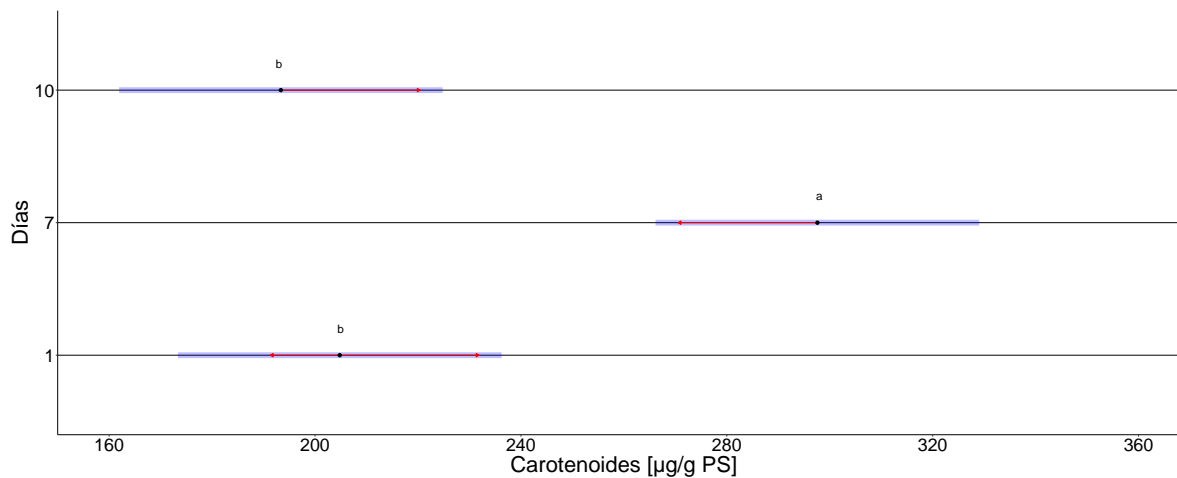
```
## lm(formula = Carotenoides ~ Día, data = data)
```

ANOVA

```
## Analysis of Variance Table
##
## Response: Carotenoides
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Día         2  39212  19606.2   15.021 0.0002622 ***
## Residuals   15  19579   1305.3
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Comparaciones a posteriori

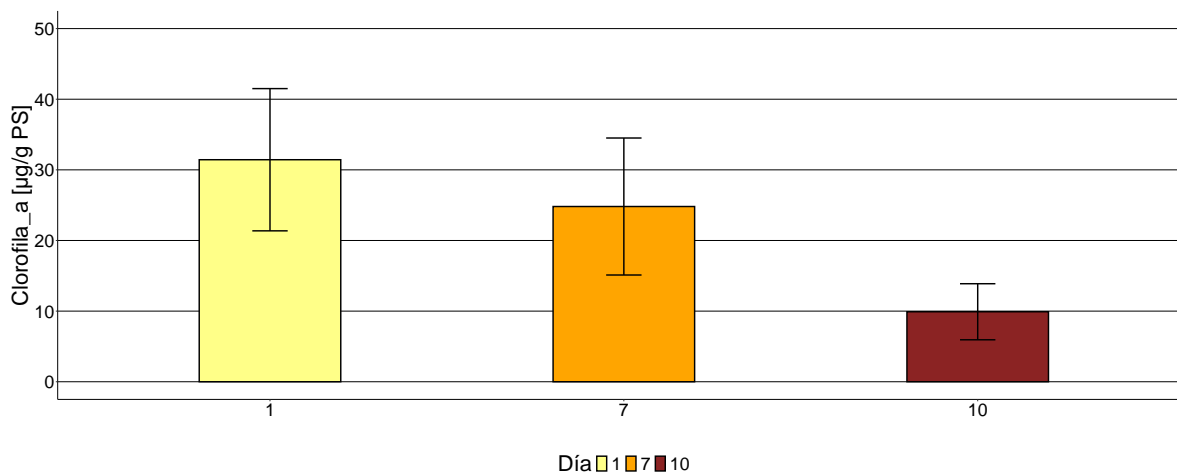
```
## $emmeans
##   Día   emmean      SE df lower.CL upper.CL
## 1    204.8070  14.7494  15  173.3694  236.2447
## 7    297.5998  14.7494  15  266.1622  329.0375
## 10   193.3654  14.7494  15  161.9277  224.8030
##
## Confidence level used: 0.95
##
## $contrasts
##   contrast      estimate      SE df t.ratio p.value
## Día1 - Día7  -92.79280  20.85881  15  -4.449  0.0013
## Día1 - Día10  11.44169  20.85881  15   0.549  0.8488
## Día7 - Día10  104.23449  20.85881  15   4.997  0.0004
##
## P value adjustment: tukey method for comparing a family of 3 estimates
```



A los 7 días se encontró un aumento significativo en la concentración de carotenoides ( $p=0.009$  )

## Clorofila a

```
## # A tibble: 3 x 4
##   Día      n Mean_Clорofila_a sd_Clорofila_a
##   <fct> <int>      <dbl>      <dbl>
## 1 1         6      31.4      10.1
## 2 7         6      24.8       9.70
## 3 10        6       9.91       3.97
```



Modelo

```
## lm(formula = Clorofila_a ~ Día, data = data)
```

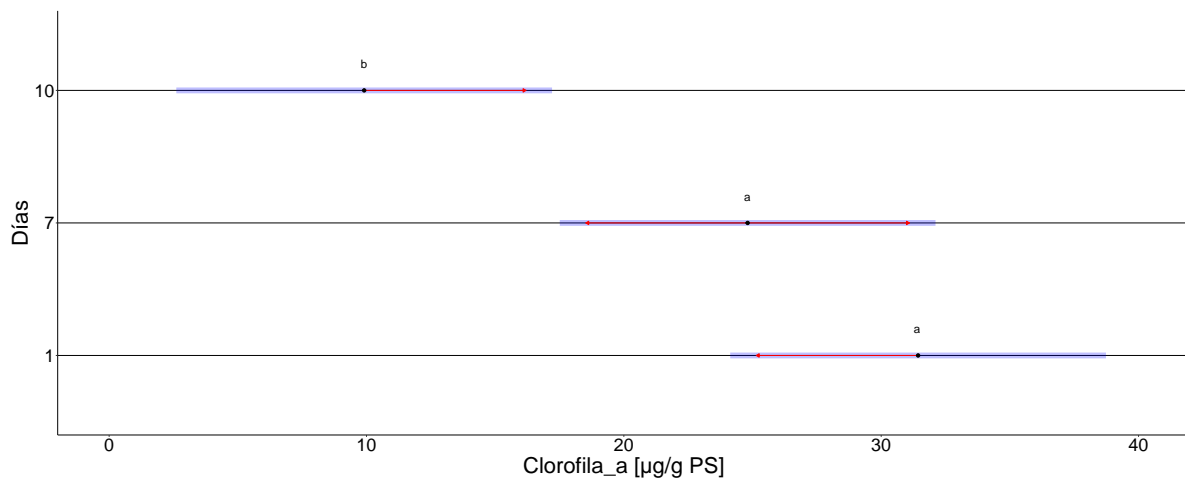
ANOVA

```
## Analysis of Variance Table
##
## Response: Clorofila_a
```

```
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Día         2 1458.3   729.16  10.359 0.001493 **
## Residuals  15 1055.9    70.39
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

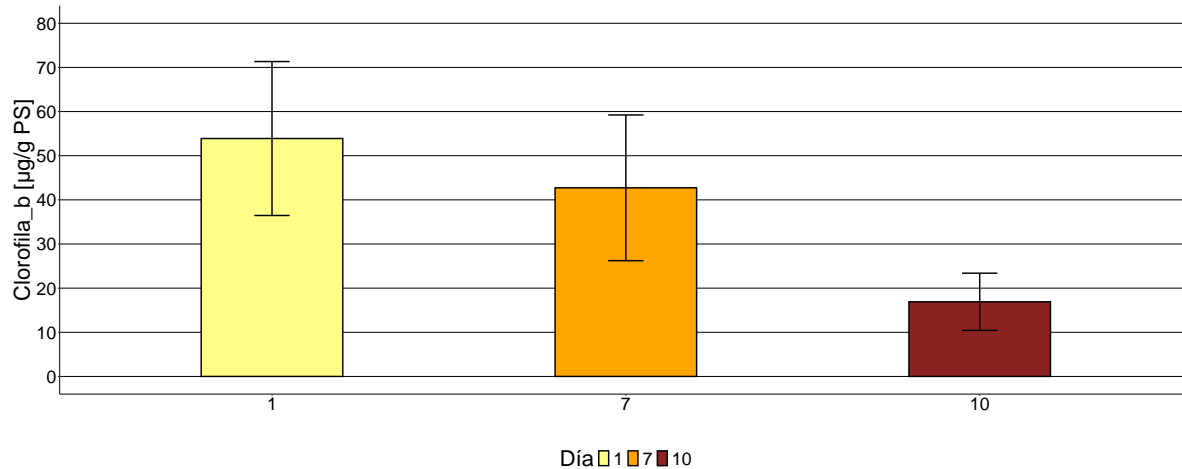
Comparaciones a posteriori

```
## $emmeans
## Día      emmean      SE df lower.CL upper.CL
## 1    31.433842  3.425173 15  24.133259  38.73442
## 7    24.810140  3.425173 15  17.509557  32.11072
## 10    9.909989  3.425173 15   2.609406  17.21057
##
## Confidence level used: 0.95
##
## $contrasts
## contrast      estimate      SE df t.ratio p.value
## Día1 - Día7    6.623702  4.843926 15   1.367  0.3820
## Día1 - Día10  21.523853  4.843926 15   4.443  0.0013
## Día7 - Día10  14.900151  4.843926 15   3.076  0.0198
##
## P value adjustment: tukey method for comparing a family of 3 estimates
```



## Clorofila b

```
## # A tibble: 3 x 4
##   Día      n Mean_Clорofila_b sd_Clорofila_b
##   <fct> <int>      <dbl>      <dbl>
## 1 1         6      53.9      17.4
## 2 7         6      42.7      16.5
## 3 10        6      16.9      6.48
```



Modelo

```
## lm(formula = Clorofila_b ~ Día, data = data)
```

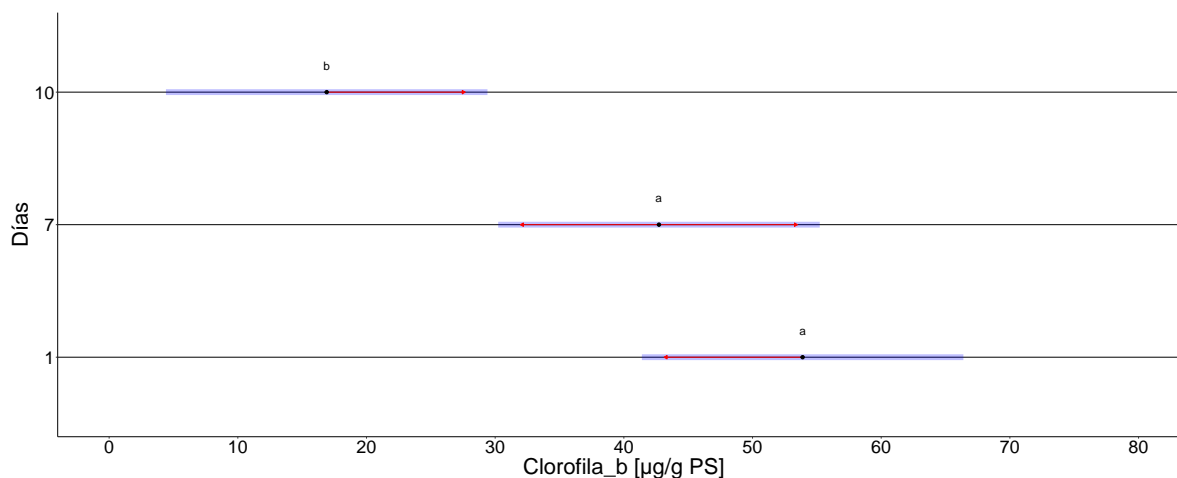
ANOVA

```
## Analysis of Variance Table
##
## Response: Clorofila_b
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Día         2 4318.8  2159.39  10.474 0.001423 **
## Residuals   15 3092.6   206.17
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Comparaciones a posteriori

```
## $emmeans
##   Día   emmean      SE df lower.CL upper.CL
## 1    53.89372  5.86191 15  41.39935  66.38808
## 7    42.72866  5.86191 15  30.23430  55.22303
## 10   16.90737  5.86191 15   4.41300  29.40173
##
## Confidence level used: 0.95
##
## $contrasts
##   contrast      estimate      SE df t.ratio p.value
## Día1 - Día7  11.16506  8.289992 15   1.347  0.3924
## Día1 - Día10 36.98635  8.289992 15   4.462  0.0012
## Día7 - Día10 25.82130  8.289992 15   3.115  0.0183
##
## P value adjustment: tukey method for comparing a family of 3 estimates
```

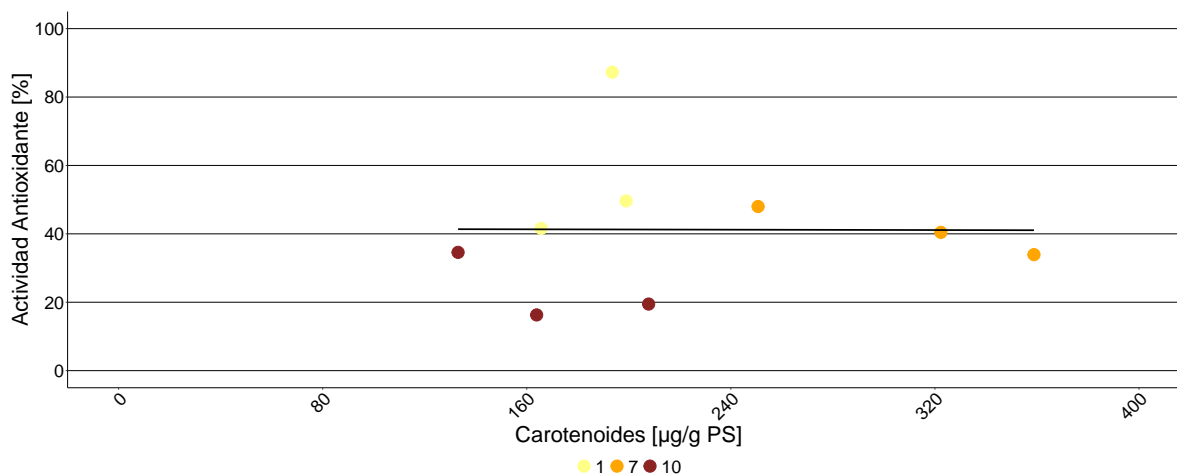




## Correlación AAO y Carotenoides

```
##
## Call:
## lm(formula = aao ~ Carotenoides, data = data3)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -25.031  -7.139  -0.673   6.787  45.988
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  41.54099   24.12452   1.722   0.129
## Carotenoides -0.00135    0.10363  -0.013   0.990
##
## Residual standard error: 22.13 on 7 degrees of freedom
## Multiple R-squared:  2.423e-05, Adjusted R-squared:  -0.1428
## F-statistic: 0.0001696 on 1 and 7 DF,  p-value: 0.99
##
## [1] -0.004922504
```

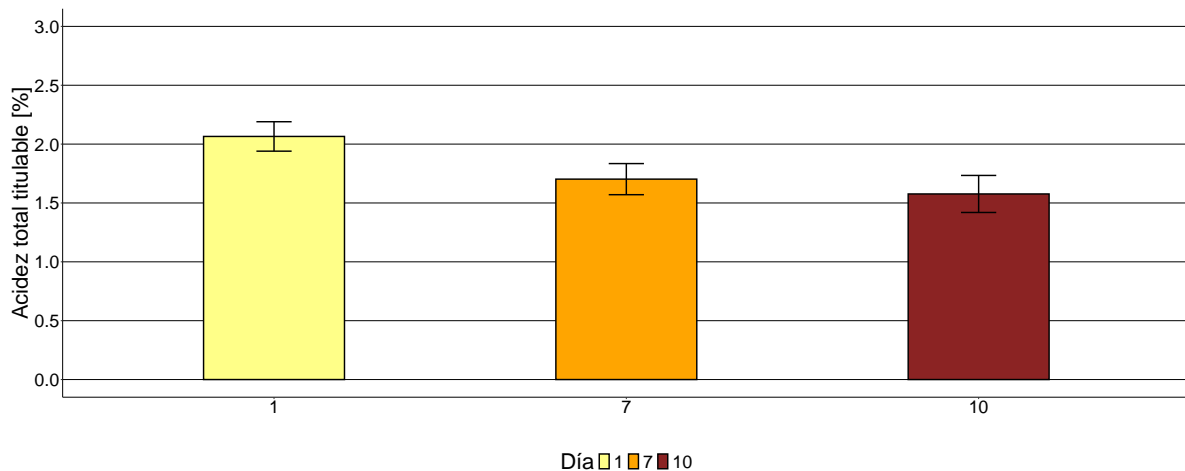
No existe evidencia para aceptar que beta1 difiere de cero ( $r = -0.004$ , valor  $p = 0.990$ )



No existe evidencia para aceptar que beta1 difiere de cero ( $r = 0.082$ , valor  $p = 0.8330$ )

## Acidez total titulable

```
## # A tibble: 3 x 4
##   Día      n Mean_Acidez sd_Acidez
##   <fct> <int>      <dbl>      <dbl>
## 1 1         3      2.07      0.125
## 2 7         3      1.70      0.132
## 3 10        3      1.58      0.157
```



## Modelo

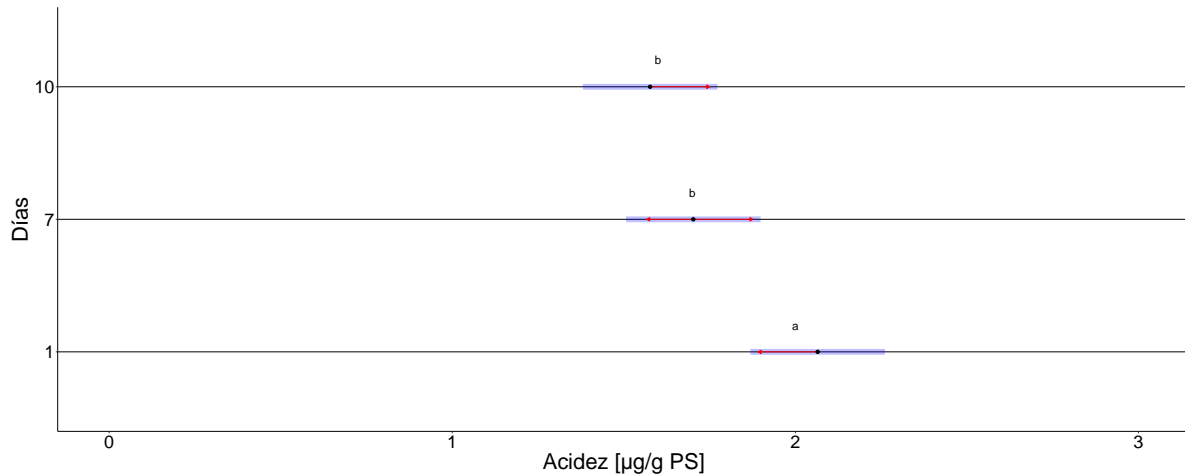
```
## lm(formula = Acidez ~ Día, data = data)
```

## Análisis de regresión

```
## Analysis of Variance Table
##
## Response: Acidez
##           Df Sum Sq Mean Sq F value Pr(>F)
## Día         2  0.38603  0.193017  10.013  0.01225 *
## Residuals    6  0.11566  0.019277
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

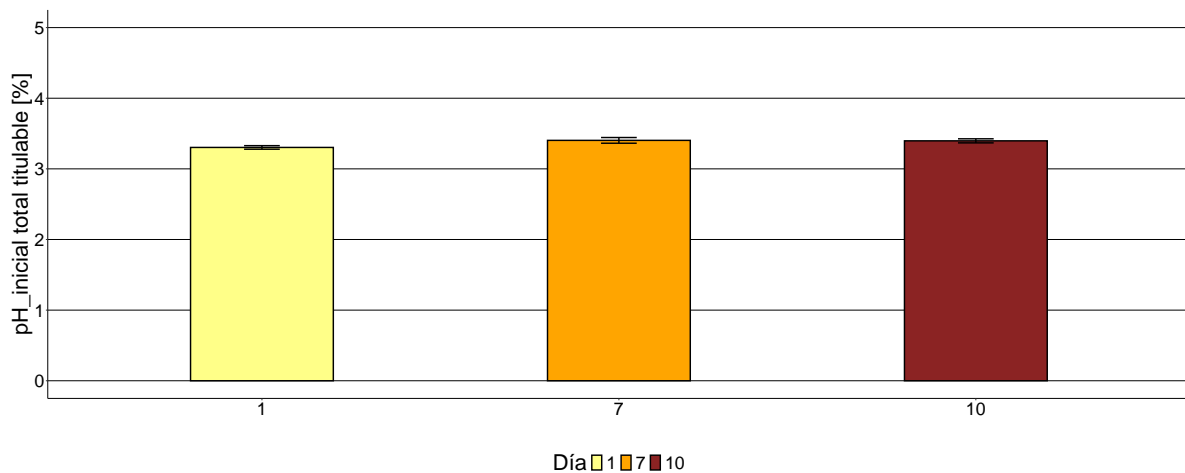
## $emmeans
##   Día      emmean      SE df lower.CL upper.CL
## 1     2.065067 0.08016023   6  1.868922  2.261212
## 7     1.702400 0.08016023   6  1.506255  1.898545
## 10    1.576533 0.08016023   6  1.380388  1.772678
##
## Confidence level used: 0.95
##
## $contrasts
##   contrast      estimate      SE df t.ratio p.value
```

```
## Día1 - Día7 0.3626667 0.1133637 6 3.199 0.0426
## Día1 - Día10 0.4885333 0.1133637 6 4.309 0.0119
## Día7 - Día10 0.1258667 0.1133637 6 1.110 0.5428
##
## P value adjustment: tukey method for comparing a family of 3 estimates
```



## pH inicial

```
## # A tibble: 3 x 4
##   Día      n Mean_pH_inicial sd_pH_inicial
##   <fct> <int>      <dbl>      <dbl>
## 1 1         3          3.30         0.0252
## 2 7         3          3.40         0.0404
## 3 10        3          3.40         0.0289
```



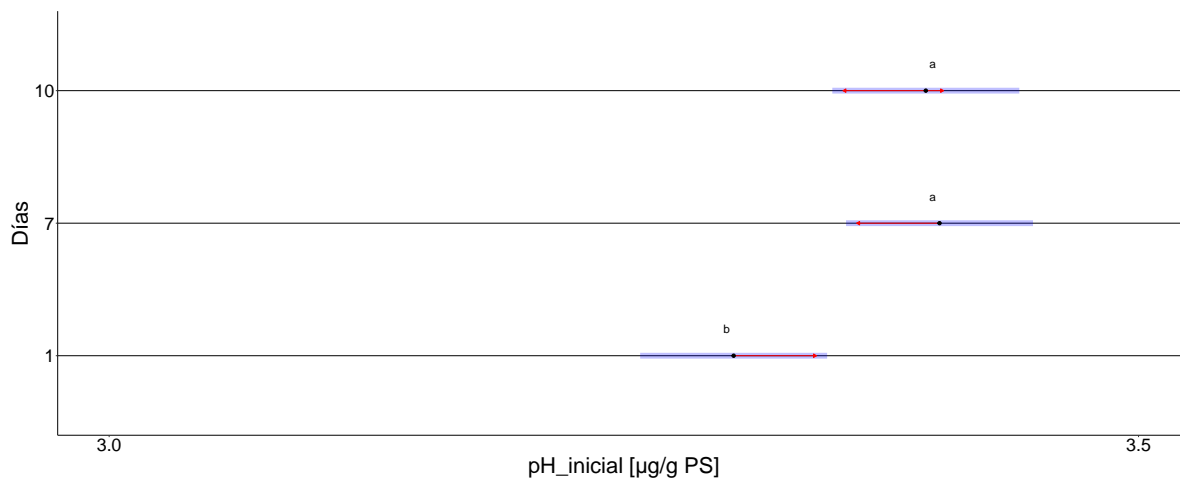
Modelo

```
## lm(formula = pH_inicial ~ Día, data = data)
```

Análisis de regresión

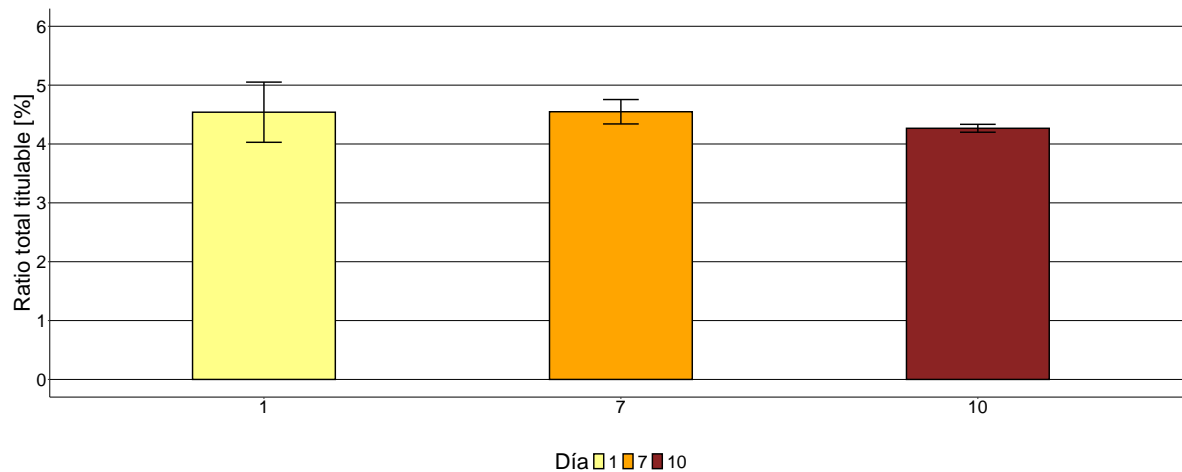
```
## Analysis of Variance Table
##
## Response: pH_inicial
##      Df    Sum Sq   Mean Sq F value    Pr(>F)
## Día      2 0.018756 0.0093778   9.0753 0.01533 *
## Residuals  6 0.006200 0.0010333
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## $emmeans
##   Día   emmean      SE df lower.CL upper.CL
## 1    3.303333 0.01855922  6 3.257921 3.348746
## 7    3.403333 0.01855922  6 3.357921 3.448746
## 10   3.396667 0.01855922  6 3.351254 3.442079
##
## Confidence level used: 0.95
##
## $contrasts
##   contrast      estimate      SE df t.ratio p.value
## Día1 - Día7 -0.10000000 0.02624669  6 -3.810 0.0207
## Día1 - Día10 -0.09333333 0.02624669  6 -3.556 0.0278
## Día7 - Día10  0.00666667 0.02624669  6  0.254 0.9653
##
## P value adjustment: tukey method for comparing a family of 3 estimates
```



## Ratio

```
## # A tibble: 3 x 4
##   Día      n Mean_Ratio sd_Ratio
##   <fct> <int>      <dbl>    <dbl>
## 1 1         3      4.54    0.511
## 2 7         3      4.55    0.207
## 3 10        3      4.27    0.0671
```



Modelo

```
## lm(formula = Ratio ~ Día, data = data)
```

Análisis de regresión

```
## Analysis of Variance Table
```

```
##
```

```
## Response: Ratio
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
```

```
## Día        2  0.15370  0.076852   0.7465  0.5134
```

```
## Residuals  6  0.61772  0.102953
```

```
## $emmeans
```

```
##   Día   emmean      SE df lower.CL upper.CL
```

```
## 1    4.540136 0.1852507   6  4.086844  4.993428
```

```
## 7    4.547998 0.1852507   6  4.094706  5.001290
```

```
## 10   4.266929 0.1852507   6  3.813637  4.720221
```

```
##
```

```
## Confidence level used: 0.95
```

```
##
```

```
## $contrasts
```

```
## contrast      estimate      SE df t.ratio p.value
```

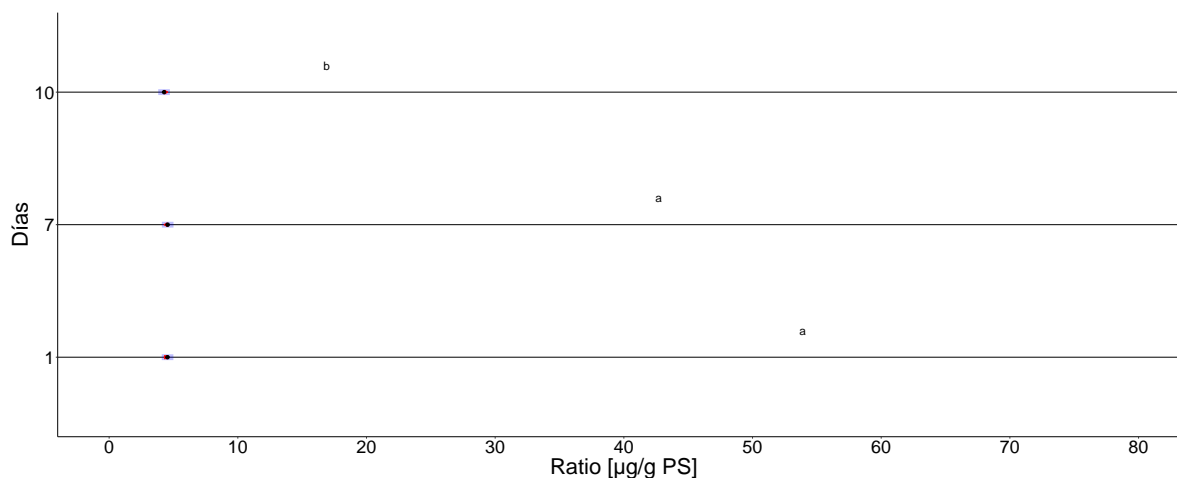
```
## Día1 - Día7 -0.00786201 0.2619841   6  -0.030  0.9995
```

```
## Día1 - Día10  0.27320673 0.2619841   6   1.043  0.5796
```

```
## Día7 - Día10  0.28106874 0.2619841   6   1.073  0.5631
```

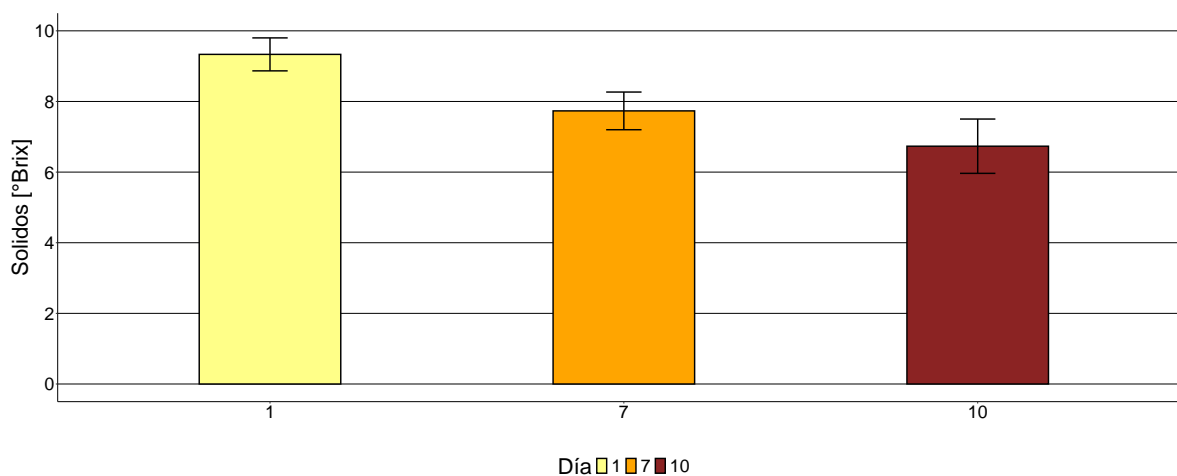
```
##
```

```
## P value adjustment: tukey method for comparing a family of 3 estimates
```



## Sólidos solubles

```
## # A tibble: 3 x 4
##   Día      n Mean_Solidos sd_Solidos
##   <fct> <int>      <dbl>      <dbl>
## 1 1         3      9.33      0.467
## 2 7         3      7.73      0.533
## 3 10        3      6.73      0.769
```



## Modelo

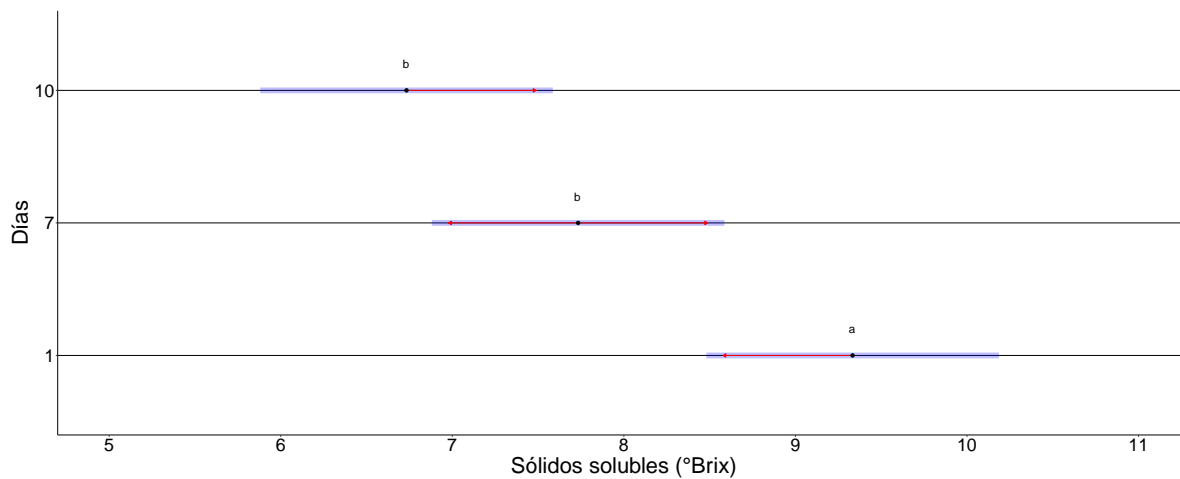
```
## lm(formula = Solidos ~ Día, data = data)
```

## Análisis de regresión

```
## Analysis of Variance Table
##
## Response: Solidos
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Día         2 10.320   5.1600  14.159 0.005345 **
```

```
## Residuals 6 2.1867 0.3644
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## $emmeans
## Día      emmean      SE df lower.CL upper.CL
## 1  9.333333 0.3485419  6 8.480482 10.186185
## 7  7.733333 0.3485419  6 6.880482  8.586185
## 10 6.733333 0.3485419  6 5.880482  7.586185
##
## Confidence level used: 0.95
##
## $contrasts
## contrast      estimate      SE df t.ratio p.value
## Día1 - Día7      1.6 0.4929127  6  3.246  0.0402
## Día1 - Día10     2.6 0.4929127  6  5.275  0.0045
## Día7 - Día10     1.0 0.4929127  6  2.029  0.1861
##
## P value adjustment: tukey method for comparing a family of 3 estimates
```



## PCA

```
## Importance of components:
##              PC1      PC2      PC3
## Standard deviation 3.6729 1.5843 1.252e-16
## Proportion of Variance 0.8431 0.1569 0.000e+00
## Cumulative Proportion 0.8431 1.0000 1.000e+00

##      ATT      a_color      aao_0.125  Respiración      Sólidos      aao_0.250      Fenoles      aao_0.500
## 7.4111696 7.3881603 7.3619166 7.3033377 7.2970659 7.2333950 7.1800748 7.0043000
## Firmeza      L_color      pH      b_color      Clo_a      Clo_b      Ratio      Carotenoides
## 6.9012378 6.7973398 6.6548678 6.0595751 5.8549885 5.8158612 3.5542934 0.1824000

## Carotenoides      Ratio      Clo_b      Clo_a      b_color      pH      L_color      Firmness
## 38.861302859 20.738549353 8.583355511 8.373058902 7.273472236 4.073966705 3.308226010 2.749807000
## aao_0.500      Fenoles      aao_0.250      Sólidos      Respiración      aao_0.125      a_color      A
## 2.195874259 1.251149397 0.964570288 0.622360141 0.588651224 0.273808519 0.132757348 0.009089000
```

Biplot

