

# Tecnológicas

## SUPPLEMENTARY MATERIAL

**Table 1S.** Measurements of sodium readings in ppm of the two standard solutions in a flame photometer. Source: own elaboration.

Theoretical concentration (ppm)	Experimental concentration (ppm)*	The experimental concentration of Standard DM-513KC-64-4 (ppm)*
0.00	0.001±0.0010	0.001±0.0010
0.02	0.015 ± 0.0014	0.022±0.0025
0.05	0.034 ± 0.0085	0.053±0.0036
0.10	0.087 ± 0.0074	0.113±0.0144
0.20	0.185 ± 0.0202	0.212±0.0335
0.30	0.253 ± 0.0259	0.281±0.0915
0.50	0.438 ± 0.0427	0.493±0.0815
0.80	0.760 ± 0.0337	0.792±0.0695
1.00	0.925 ± 0.0316	0.981±0.0583

\* Mean ± standard deviation, n = 3

**Table 2S.** Analysis of Variance for the linear regression curve. Source: own elaboration.

Regression statistics					
Multiple correlation coefficient	0.99923096				
Coefficient of determination R2	0.99846251				
R2 adjusted	0.99824287				
Standard error	0.01424515				
Observations	9				

  

Analysis of variance					
	Freedom degrees	Sum of squares	Mean squares	F	The critical value of F
Regression	1	0.92247	0.92247	4545.87459	4.15E-11
Residues	7	0.00142	0.00020		
Total	8	0.92389			

	Coefficients	Standard error	Statistics t	Probability	Lower 95 %	Superior 95 %	Lower 95.0 %	Superior 95.0 %
Interception	-0.0094	0.0066	-1.4262	0.1969	-0.0250	0.006192163	-0.025012751	0.006192163
Theoretical concentration in (ppm)	0.9361	0.0139	67.4231	0.0000	0.9032	0.968887023	0.903229238	0.968887023

**Table 3S.** Two-sample t-test assuming equal variances. Source: own elaboration.

	The experimental concentration of the standard solution	The experimental concentration of the saline solution
Mean (ppm)	0.330077778	0.299488889
Variance (ppm)	0.124216864	0.115486114
Observations	9	9
Variance grouped	0.119851489	
Hypothetical difference of means	0	
Freedom degrees	16	
Statistic t	0.187433943	
P(T<=t) one-tailed	0.426838348	
Critical value of t (one-tailed)	1.745883676	
P(T<=t) two-tailed	0.853676697	
Critical value of t (two-tailed)	2.119905299	