

Buffers Keep the Balance

Data Table 1. Model Carbonate Blood Buffer

Table 1	Test Tube Number					
	1	2	3	4	5	6
Solution	Carbonic Acid (Reference)	Model Carbonate Blood Buffer	Water (Control)	Model Carbonate Blood Buffer	Water (Control)	Sodium Bicarbonate (Reference)
Bromothymol blue indicator color	yellow 6.0	greenish 7.2 blue	green 6.0	greenish 7.0 blue	green 6.0	blue
Initial pH value	6.0	7.2	6.0	7.0	6.0	8.0
Number of drops of HCl required to convert solutions 2 and 3 to yellow (acid reference color)	NA	16	5	NA	NA	NA
Number of drops of NaOH required to convert solutions 4 and 5 to blue (base reference color)	NA	NA	NA	2	2	NA

Data Table 2. Effect of HCl on Biological Phosphate Buffers

	Estimated pH (pH paper)	Universal Indicator Color			
		Initial	After 1 drop of HCl	After 5 drops of HCl	After 10 drops of HCl
Water (control)	6.0	6.0	6.0	NA	NA
Phosphate Buffer A	6.0	6.0	6.0	6.0	6.0
Phosphate Buffer B	6.4	6.4	6.4	6.0	6.0

Data Table 3. Effect of NaOH on Biological Phosphate Buffers

	Estimated pH (pH paper)	Universal Indicator Color			
		Initial	After 1 drop of NaOH	After 5 drops of NaOH	After 10 drops of HCl
Water (control)	6.0	6.0	7.0	NA	NA
Phosphate Buffer A	6.0	6.0	6.8	7.0	8.0
Phosphate Buffer B	6.4	6.4	7.0	7.0	7.0

Answers Buffers Keep The Balance Lab Answers

JL Elias



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