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Supplementary data 3: The composition of different pH buffer solutions

pH Value	Disodium hydrogen phosphate	Citric acid
	(0.2 mol/L)	(0.1 mol/L)
2.2	0.4 mL	10.6 mL
3.0	2.05 mL	7.95 mL
4.0	3.85 mL	6.15 mL
5.0	5.15 mL	4.85 mL
6.0	6.32 mL	3.68 mL
7.0	8.24 mL	1.76 mL
8.0	9.72 mL	0.28 mL
	Sodium carbonate	Sodium hydrogen carbonate
	(0.1 mol/L)	(0.1 mol/L)
9.1	1.0 mL	9.0 mL
9.9	5.0 mL	5.0 mL
10.8	9.0 mL	1.0 mL