

For the trials of CV reacting under basic solution, the concentrations of each were decided using a final volume of 3.00mL. The initial concentration of Crystal Violet was 2.0×10^{-5} M and the initial concentration of NaOH was 0.10 M. See Table 3 for the full Trial composition.

Table 3: Composition of each trial's Cuvette

Trial Number	Crystal Violet (mL) (2.0×10^{-5} M)	NaOH (mL) (0.10 M)	H ₂ O (mL)	Total Volume (mL)	Concentration of Crystal Violet (M)	Concentration of NaOH (M)
1	1.00	1.00	1.00	3.00	6.67×10^{-6}	.033
2	2.00	1.00	0.00	3.00	1.33×10^{-5}	.033
3	1.00	2.00	0.00	3.00	6.67×10^{-6}	.067

Each trial was conducted while recording the absorbance every second. A summary of this data (or every 15 seconds) is included in Appendix A for reference.

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