

Part 1

Finding the optimum

Wavelength

$\lambda_{\max} = 509.6 \text{ nm}$

Unknown absorbance = 0.2

Part 2

Cobalt	%	ml cobalt	ml H ₂ O	Abs
0.1m	100%	10	0	0.504
0.08m	80%	8	2	0.475
0.06m	60%	6	4	0.319
0.04m	40%	4	6	0.252
0.02	20%	2	8	~~0.025~~ → 0.118
0	0%	0	10	~~0.000~~ 0.047

