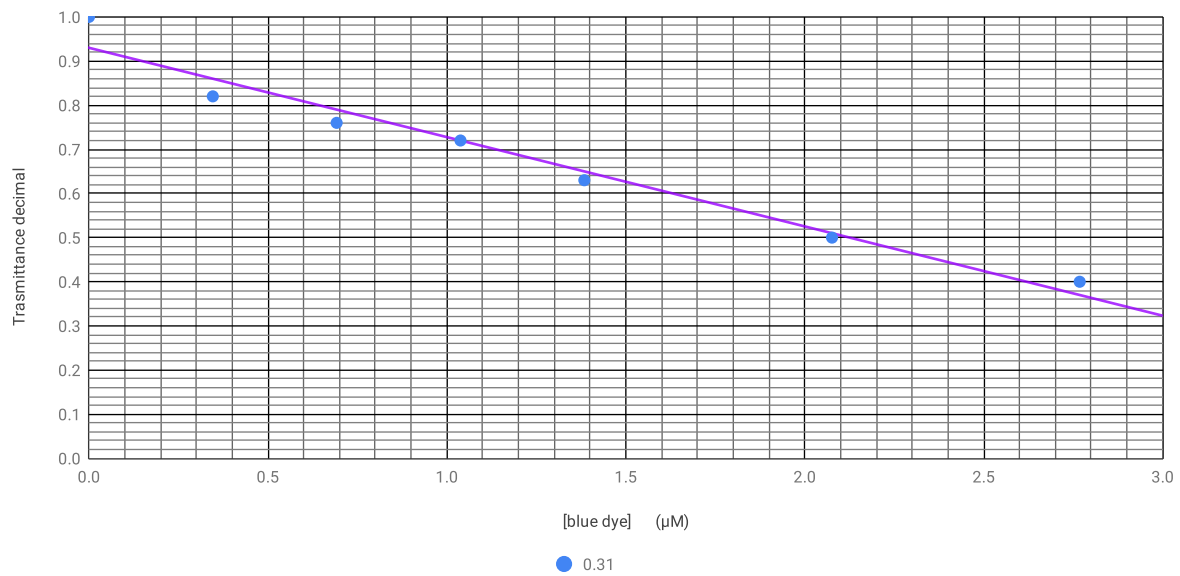


Solution	Dilution Ratio mL stock /mLH2O	[blue dye] (μ M)	% Transmittance	Trasmittance decimal						
1	10.0 mL / 0.0 mL	3.46	31.00	0.31	GROUP 1					
2	8.00 mL / 2.00 mL	2.768	40.00	0.4	GROUP 1					
3	6.00 mL / 4.00 mL	2.076	50.00	0.5	GROUP 1					
4	4.00 mL / 6.00 mL	1.384	63.00	0.63	GROUP 2					
5	3.00 mL / 7.00 mL	1.038	72.00	0.72	GROUP 2					
6	2.00 mL / 8.00 mL	0.692	76.00	0.76	GROUP 3					
7	1.00 mL / 9.00 mL	0.346	82.00	0.82	GROUP 3					GROUP 4
8	.0 mL / 10.0 mL	0	100.00	1	GROUP 3					

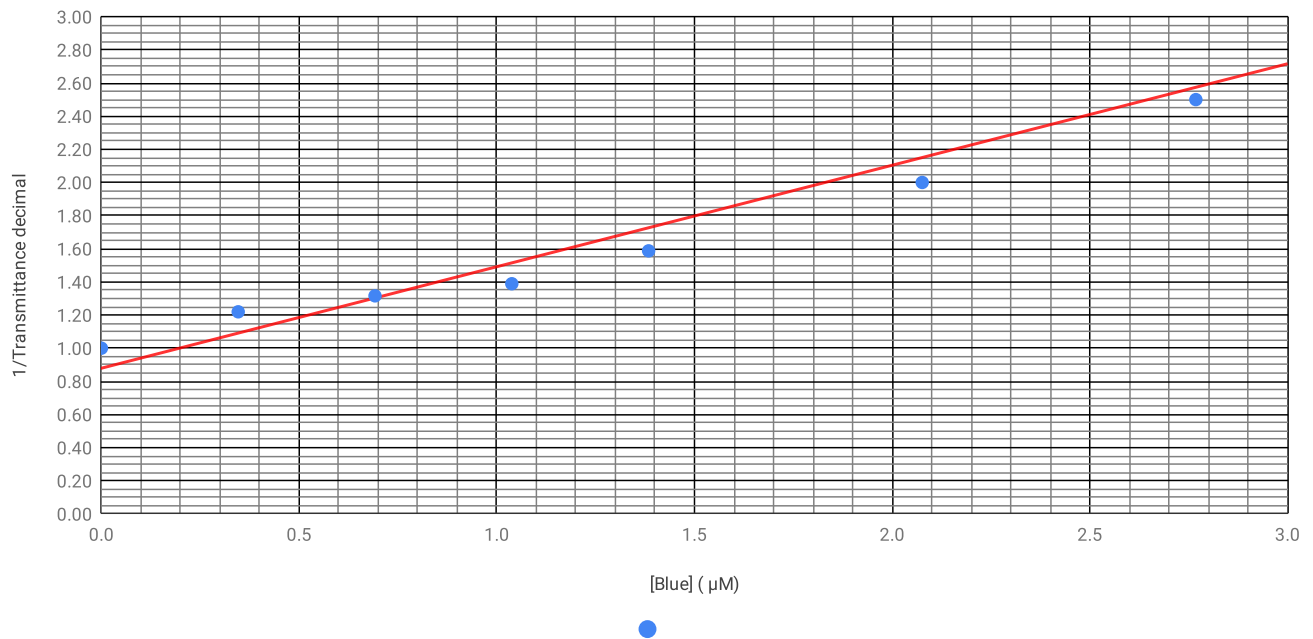
Solution	Dilution Ratio mL stock /mLH2O	[blue dye] (μM)	% Transmittance	Trasmittance decimal
1	10.0 mL / 0.0 mL	3.46	31.00	0.31
2	8.00 mL / 2.00 mL	2.768	40.00	0.4
3	6.00 mL / 4.00 mL	2.076	50.00	0.5
4	4.00 mL / 6.00 mL	1.384	63.00	0.63
5	3.00 mL / 7.00 mL	1.038	72.00	0.72
6	2.00 mL / 8.00 mL	0.692	76.00	0.76
7	1.00 mL / 9.00 mL	0.346	82.00	0.82
8	.0 mL / 10.0 mL	0	100.00	1

Transmittance decimal vs. [Blue] (μM)

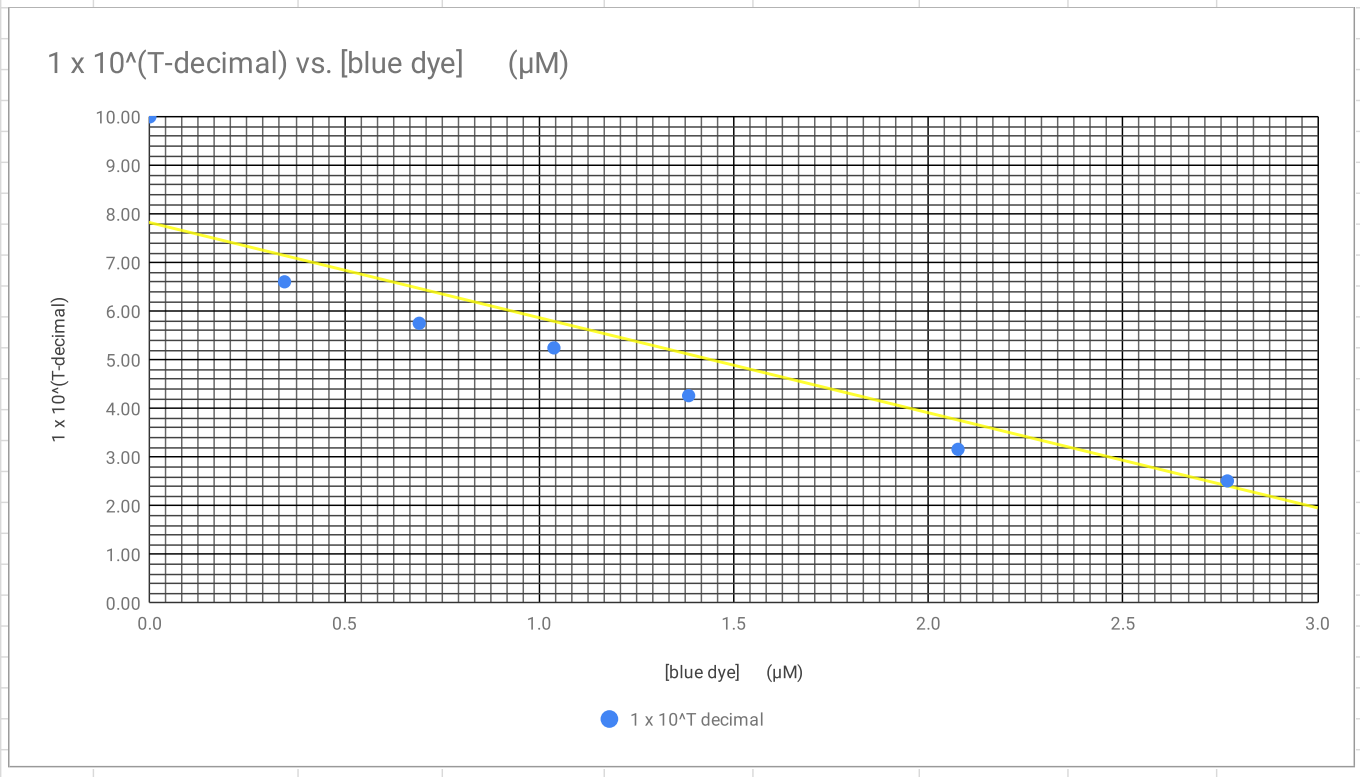


Solution	Dilution Ratio mL stock / mL H ₂ O	[blue dye] (μM)	% Transmittance	Transmittance decimal	1/T decimal
1	10.0 mL / 0.0 mL	3.46	31.00	0.31	3.23
2	8.00 mL / 2.00 mL	2.768	40.00	0.4	2.50
3	6.00 mL / 4.00 mL	2.076	50.00	0.5	2.00
4	4.00 mL / 6.00 mL	1.384	63.00	0.63	1.59
5	3.00 mL / 7.00 mL	1.038	72.00	0.72	1.39
6	2.00 mL / 8.00 mL	0.692	76.00	0.76	1.32
7	1.00 mL / 9.00 mL	0.346	82.00	0.82	1.22
8	.0 mL / 10.0 mL	0	100.00	1	1.00

1/Transmittance decimal vs. [Blue] (μM)

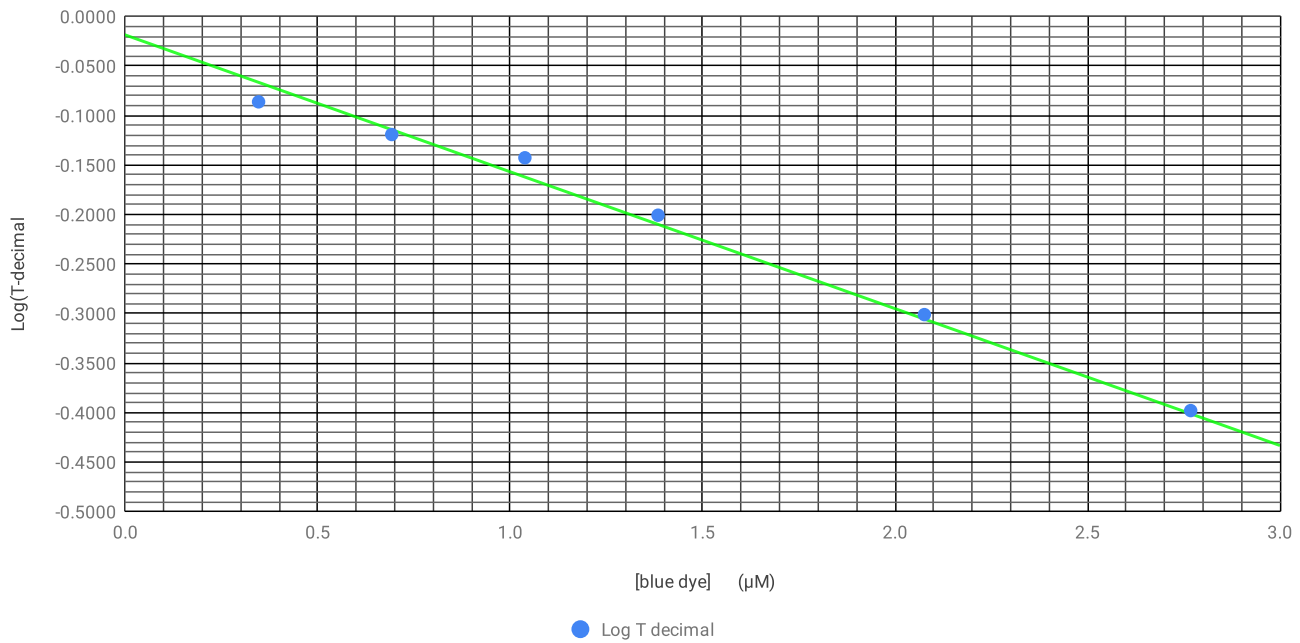


Solution	Dilution Ratio mL stock / mL H ₂ O	[blue dye] (μM)	% Transmittance	Trasmittance decimal	$1 \times 10^{\wedge}T$ decimal
1	10.0 mL / 0.0 mL	3.46	31.00	0.31	2.04
2	8.00 mL / 2.00 mL	2.768	40.00	0.4	2.51
3	6.00 mL / 4.00 mL	2.076	50.00	0.5	3.16
4	4.00 mL / 6.00 mL	1.384	63.00	0.63	4.27
5	3.00 mL / 7.00 mL	1.038	72.00	0.72	5.25
6	2.00 mL / 8.00 mL	0.692	76.00	0.76	5.75
7	1.00 mL / 9.00 mL	0.346	82.00	0.82	6.61
8	.0 mL / 10.0 mL	0	100.00	1	10.00

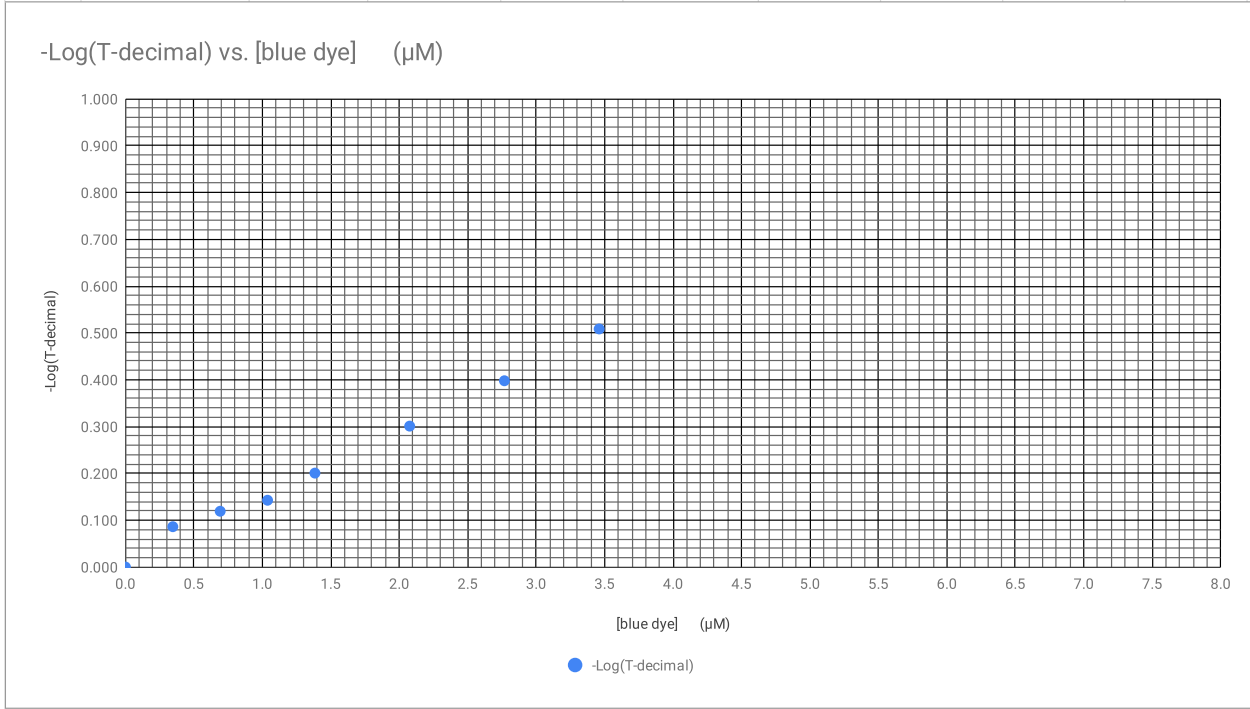


Solution	Dilution Ratio mL stock / mL H ₂ O	[blue dye] (μ M)	% Transmittance	Transmittance decimal	Log T decimal
1	10.0 mL / 0.0 mL	3.46	31.00	0.31	-0.5086
2	8.00 mL / 2.00 mL	2.768	40.00	0.4	-0.3979
3	6.00 mL / 4.00 mL	2.076	50.00	0.5	-0.3010
4	4.00 mL / 6.00 mL	1.384	63.00	0.63	-0.2007
5	3.00 mL / 7.00 mL	1.038	72.00	0.72	-0.1427
6	2.00 mL / 8.00 mL	0.692	76.00	0.76	-0.1192
7	1.00 mL / 9.00 mL	0.346	82.00	0.82	-0.0862
8	.0 mL / 10.0 mL	0	100.00	1	0.0000

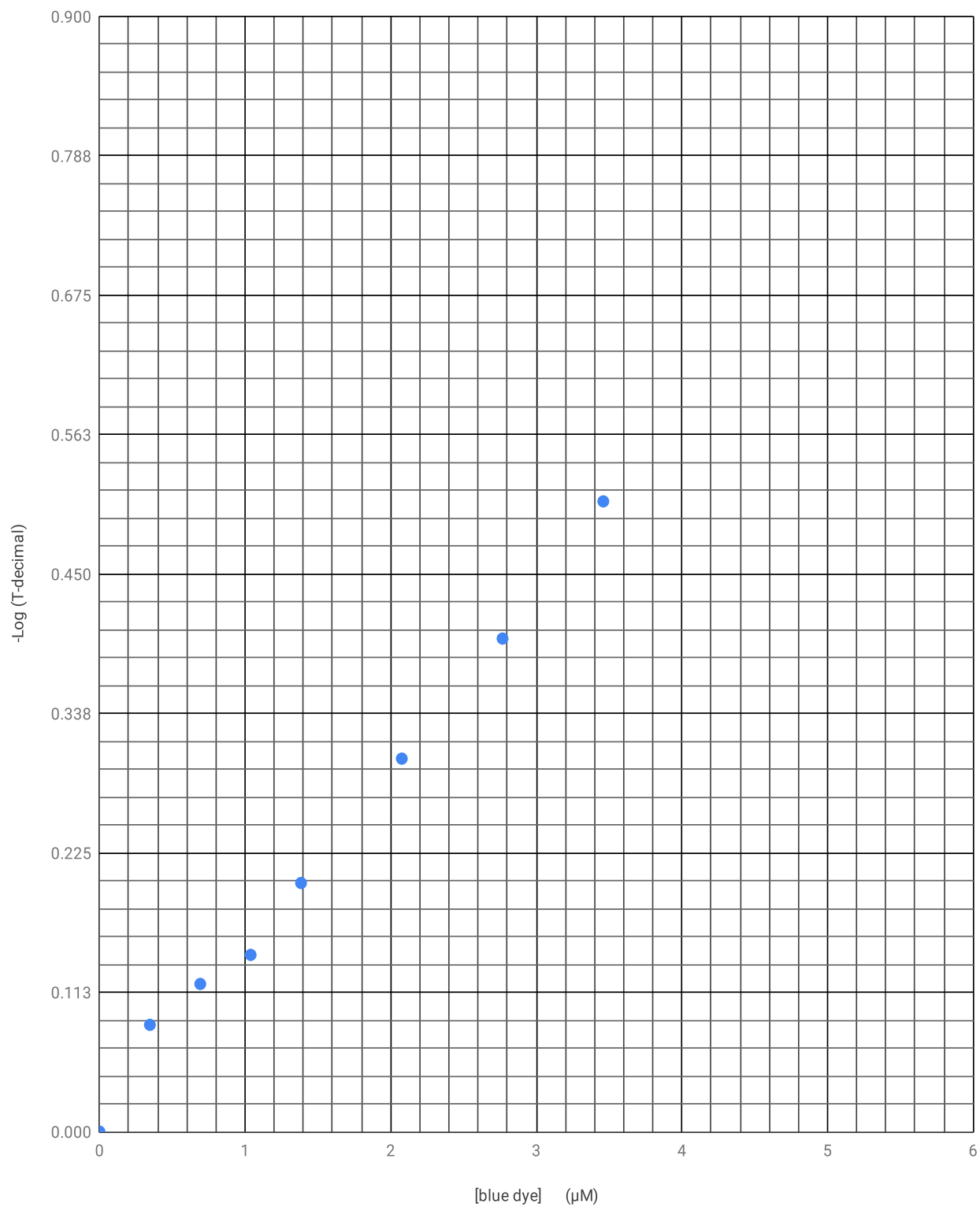
Log(T-decimal) vs. [blue dye] (μ M)



	Dilution Ratio mL stock / mL H ₂ O	[blue dye] (μ M)	% Transmittance	Transmittance decimal	-Log(T-decimal)
1	10.0 mL / 0.0 mL	3.46	31.00	0.31	0.509
2	8.00 mL / 2.00 mL	2.768	40.00	0.4	0.398
3	6.00 mL / 4.00 mL	2.076	50.00	0.5	0.301
4	4.00 mL / 6.00 mL	1.384	63.00	0.63	0.201
5	3.00 mL / 7.00 mL	1.038	72.00	0.72	0.143
6	2.00 mL / 8.00 mL	0.692	76.00	0.76	0.119
7	1.00 mL / 9.00 mL	0.346	82.00	0.82	0.086
8	.0 mL / 10.0 mL	0	100.00	1	0.000



-Log (T-decimal) Vs. [blue dye] (μM)



● -Log(T-decimal)