02/24

Standard Curve @ 595nm

Standards

	rep1		rep2	rep3	avg	conc (x)	slope (m) of equation	y-intercept (b)
a		0.992	0.85	0.86	0.89967	2	0.2838	0.3657
b			0.95	0.62	0.786	1.5		
c			0.71	0.51	0.607	1		
d		0.406	0.79	0.77	0.65467	0.75		
e		0.656	0.56	0.6	0.605	0.5		
f		0.502	0.49	0.51	0.503	0.25		
h		0.39	0.36	0.38	0.377	0.125		
g		0.311	0.31	0.3	0.30733	0.025		
i		0.296	0.3	0.3	0.297	0		

$\frac{10\mu g}{2.36\mu L} = \frac{x\ \mu g}{100\mu L}$

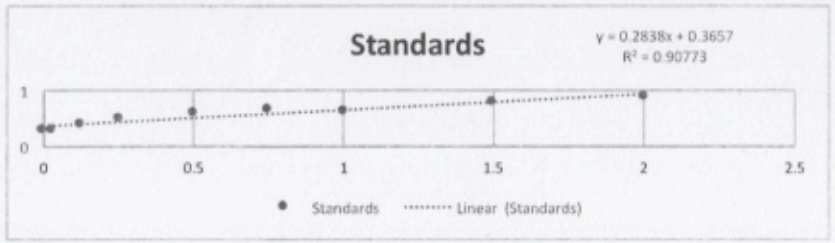
$\frac{10\mu g}{2.36\mu L} = \frac{1\mu g}{x\ \mu L}$

$\frac{2.36\mu L}{10\mu g} = \frac{100\mu L}{x\ \mu g}$

$\frac{2.36\mu L}{10\mu g} = \frac{x\ \mu L}{1\mu g} =$

		rep 1		rep 2	rep 3	avg	~~ng/ml~~ μg/μL [(y-yint)/m]	uL dilution factor	uL stock for 40ug	uL stock for 1ug	uL stock for 5u	uL stock for 10ug
0117-20	1x	1.736	1.7	1.75	1.72633	4.794338736	4.794338736	8.343173522	0.208579338	1.04289669	2.085793381	
0117-20	10x	0.542	1.07	1.02	0.876	1.798097252	17.98097252	2.22457378	0.055614345	0.278071723	0.556143445	
0117-20	20x	0.829	0.86	1.05	0.91033	1.919074466	38.38148931	1.042169043	0.026054226	0.13027113	0.260542261	
0118-22	1x	1.425	1.44	1.44	1.43567	3.770143293	3.770143293	10.60967631	0.265241908	1.326209539	2.652419078	
0118-22	10x	0.705	0.8	0.77	0.75933	1.387009631	13.87009631	2.883902109	0.072097553	0.360487764	0.720975527	
0118-22	20x	0.511	0.53	0.5	0.51233	0.516678412	10.33356824	3.870879745	0.096771994	0.483859968	0.967719936	
0118-15	1x	1.652	1.59	1.55	1.59767	4.340967818	4.340967818	9.214535025	0.230363376	1.151816878	2.303633756	
0118-15	10x	0.777	0.73	0.65	0.72	1.248414376	12.48414376	3.204064352	0.080101609	0.400508044	0.801016088	
0118-15	20x	0.571	0.61	0.64	0.60367	0.838501292	16.77002584	2.385208012	0.0596302	0.298151002	0.596302003	
0118-29	1x	1.553	1.58	1.56	1.56633	4.230561428	4.230561428	9.455009856	0.236375246	1.181876232	2.363752464	
0118-29	10x	0.973	0.84	0.95	0.919	1.949612403	19.49612403	2.051689861	0.051292247	0.256461233	0.512922465	
0118-29	20x	0.658	0.66	0.67	0.66333	1.048743246	20.97486493	1.907044462	0.047676112	0.238380558	0.476761115	
0118-56	1x	1.629	1.59	1.63	1.61867	4.414963589	4.414963589	9.060097369	0.226502434	1.132512171	2.265024342	
0118-56	10x	0.81	0.82	0.73	0.78933	1.492717876	14.92717876	2.67967582	0.066991896	0.334959478	0.669918955	
0118-56	20x	0.648	0.62	0.64	0.636	0.95243129	19.04862579	2.099889012	0.052497225	0.262486127	0.524972253	
0119-1	1x	1.638	1.67	1.67	1.657	4.550035236	4.550035236	8.791140711	0.219778518	1.098892589	2.197785178	
0119-1	10x	1.167	1.14	1.21	1.17167	2.839910735	28.39910735	1.408494975	0.035212374	0.176061872	0.352123744	
0119-1	20x	0.827	0.88	0.76	0.82433	1.616044163	32.32088325	1.237589941	0.030939749	0.154698743	0.309397485	
0119-7	1x	1.684	1.69	1.71	1.69667	4.689805027	4.689805027	8.529139222	0.213228481	1.066142403	2.132284806	
0119-7	10x	0.889	1.01	0.88	0.926	1.97427766	19.7427766	2.026057469	0.050651437	0.253257184	0.506514367	
0119-7	20x	0.842	0.91	1.05	0.935	2.005990134	40.11980268	0.997013877	0.024925347	0.124626735	0.249253469	

0117-20
0118-22
0118-15
0118-29
0118-56
0119-1
0119-7



$\frac{4.23\mu g\ (1\mu L)}{100} = C_2\ (100\mu L)$

$1\mu g / 0.236\mu L$

$\frac{0.786\mu g}{30\mu L} = \frac{50\mu g}{x\ \mu L} + 0.236\mu L$