

Technician: _____
 Instrument: _____
 Serial No: _____
 Date: _____

Company: _____
 Address1: _____
 Address2: _____
 City, St, Zip: _____

Notes: Temperature: 22 Degree C Relative Humidity: 44% Certificate Number: 90 Interval: 12 Months
 Standard Used: Fluorescence Test Plate AKID: AK014 Serial Number: _____ Procedure: AKOP-2000
 Standard's Cal Date: 07/30/2010 Standard's Due Date: 07/30/2011
 Technician's Signature: _____ Today's Date: 08/01/2011

485 / 520 First Measurement

Swap Data (A1<-->A12)

	1	2	3	4	5	6	7	8	9	10	11	12
A	7463.15	49543.9	43760.4	31255	8420.63	1940.69	488.321	27.883	3.267	35.358	3328.38	8273.4
B	7337.95	51016.1	44170.3	29984.3	8451.11	2236.89	497.809	32.806	2.767	25.06	3373.77	8835.84
C	7655.79	49739.4	44192	30976.4	8145.47	2159.3	462.825	25.15	3.146	17.033	3373.74	9025.12
D	7713.62	49397.4	43719.4	30662.2	9118.62	2198.6	324.274	22.043	3.003	17.52	3415.15	9272.72
E	7788.8	49523.1	44160.7	31265.6	10999.4	2338.5	532.484	8.948	3.03	17.082	3394.93	10939.7
F	8088.7	48493.9	58382	57830.1	3.455	3.443	3.41	3.3	3.258	14.702	3446.74	9108.9
G	7720.2	47892	3.475	55965	3.241	3.083	61837	3.099	3.335	14.817	3405.87	9115.54
H	7608.68	48736.6	55840.6	57411.2	2.89	3.133	3.216	3.061	2.93	16.655	3391.61	11711.1

Fourth Measurement

Swap Data (A1<-->A12)

	1	2	3	4	5	6	7	8	9	10	11	12
A	7213.348	47582	41710	29132.3	8302.19	1931.87	480.87	27.327	3.267	35.358	3328.38	8273.4
B	6984.434	48020.5	41710	29132.3	8160.9	2138.85	495.155	30.736	2.767	25.06	3373.77	8835.84
C	7419.613	46474	42238.2	29984.3	8145.47	2159.3	462.825	25.15	3.146	17.033	3373.74	9025.12
D	7400.003	47552	42397.9	30662.2	9118.62	2198.6	324.274	22.043	3.003	17.52	3415.15	9272.72
E	7556.335	47212.9	43417.5	29665.6	10999.4	2338.5	532.484	8.948	3.03	17.082	3394.93	10939.7
F	7793.95	48493.9	58382	57830.1	3.455	3.443	3.41	3.3	3.258	14.702	3446.74	9108.9
G	7643.332	47892	3.475	55965	3.241	3.083	61837	3.099	3.335	14.817	3405.87	9115.54
H	7608.68	48736.6	55840.6	57411.2	2.89	3.133	3.216	3.061	2.93	16.655	3391.61	11711.1

Second Measurement

Swap Data (A1<-->A12)

	1	2	3	4	5	6	7	8	9	10	11	12
A	7279.25	47887.4	41918.2	30124.5	8203.45	1915.06	497.515	27.968	3.256	35.6	3289.39	8166.48
B	7158.53	48344.6	43296.8	29452.9	8421.86	2198.81	501.986	31.541	2.978	25.228	3349.37	8739.58
C	7578.06	47643.5	43725	29603.3	8060.99	2078.35	452.988	25.717	3.155	16.597	3344.1	8910.96
D	7644.77	48081.4	42733.1	30570.2	8993.42	2059.57	319.541	21.605	3.352	18.462	3396.68	9252.47
E	7612.85	48441.6	43396.9	31090.5	9238.62	2286.68	521.914	8.547	3.149	16.911	3375.15	9913.7
F	7966.45	47572.8	56360.6	56925.8	3.744	3.543	3.424	3.382	3.228	15.284	3412.0	9001.0
G	7716.43	48358.7	3.364	55717.6	3.075	3.243	63288.8	3.259	3.178	14.373	3385.0	9108.9
H	7403.14	48141.5	56919	57850.9	3.042	3.146	3.442	3.216	3.299	16.143	3342.0	9108.9

Fifth Measurement

Swap Data (A1<-->A12)

	1	2	3	4	5	6	7	8	9	10	11	12
A	7302.252	48190.6	41918.2	30211.5	8320.25	1921.87	484.562	27.119	3.092	34.827	3247.21	8198.19
B	7241.605	47490.6	43296.8	29025.2	8318.71	2135.11	486.897	32.614	2.894	25.138	3286.57	8844.19
C	7598.35	46794.1	43725	28904.2	8155.28	2083.08	450.368	25.192	3.26	17.161	3288.86	8913.25
D	7434.384	48223.2	42733.1	30505.8	8800.25	2045.06	318.926	20.859	3.345	17.548	3342.57	9229.82
E	7532.48	47212.9	43406.1	30505.8	9386.06	2241.25	517.078	8.801	3.102	17.558	3332.08	10742.6
F	7856.45	47572.8	56360.6	56925.8	3.744	3.548	3.419	3.505	3.46	15.392	3381.28	9112.97
G	7856.45	47572.8	56360.6	56925.8	3.744	3.548	3.419	3.505	3.46	15.392	3381.28	9112.97
H	7667.0	48141.5	55779.2	57158.3	3.213	3.212	3.355	3.22	3.142	16.004	3308.37	10134.5

Third Measurement

Swap Data (A1<-->A12)

	1	2	3	4	5	6	7	8	9	10	11	12
A	7056.62	48723.9	40708.2	29087.9	8266.62	1894.77	482.227	27.156	3.228	34.798	3252.73	8166.48
B	6944.65	47366.7	41305.1	28883.3	8207.64	2201.05	485.067	31.862	3.131	25.575	3304.92	8781.0
C	7392.63	48242.9	41783	29314.9	7936.78	2070.76	449.65	25.084	2.956	16.298	3294.25	8902.0
D	7482.24	47452.6	42295.7	29405.6	8723.85	2027.12	313.049	22.143	3.178	17.685	3355.65	9214.8
E	7551.82	47415.4	42198.4	30062.3	10675	2277.08	526.496	8.343	3.155	16.911	3333.03	9445.06
F	7779.46	48689.8	54813.5	56033.8	3.609	3.455	3.39	3.56	3.228	15.284	3412.0	9001.0
G	7630.76	46687.7	3.351	55393.3	2.998	3.518	60824.4	3.259	3.178	14.373	3385.0	9108.9
H	7490.06	49151	54004.1	56449.1	3.071	3.232	3.507	3.194	3.194	15.956	3342.0	11405

Standard Deviations

	1	2	3	4	5	6	7	8	9	10	11	12
A	131.8	691.1	92.3	801.6	71.2	15.9	7.8	0.4	0.1	0.3	33.4	105.6
B	131.8	1332.2	1332.2	426.0	114.2	39.3	6.4	0.8	0.1	0.2	36.0	74.7
C	131.8	1161.9	92.3	785.5	102.1	32.0	4.7	0.3	0.1	0.3	36.4	48.7
D	131.8	694.3	665.8	499.7	156.8	61.1	3.6	0.5	0.2	0.4	34.0	67.3
E	131.8	118.6	699.9	621.4	771.4	41.5	5.6	0.2	0.1	0.4	27.6	721.5
F	124.0	0	1230.4	1056.2	0.1	0.1	0.2	0.2	0.2	0.3	29.4	53.5
G	71.7	0.1	0.1	851.5	0.1	0.1	848.9	0.1	0.1	0.4	31.7	66.7
H	107.3	347.1	1162.3	673.2	0.1	0.1	0.1	0.1	0.1	0.3	34.3	576.9

320 / 420 Blue Fluorophore

Swap Data (A1<-->A12)

	1	2	3	4	5	6	7	8	9	10	11	12
A	7.337	45.262	36.973	26.443	9.355	3.811	0.791	1.133	6.999	182.5	812	8.315
B	7.862	49.029	38.371	71.184	14.427	2.128	0.782	6.738	162.476	812	8.092	
C	7.66	45.387	46.276	27.748	9.277	2.128	1.656	11.11	107.679	812	8.127	
D	6.609	47.556	38.598	26.6	9.346	2.128	0.782	8.347	117.73	812	8.0721	
E	6.758	45.55	39.382	30.512	11.03	13.0	1.478	8.561	116.629	88.5	1173	
F	9.069	45.465	47.515	50.79	9.986	4.2	10.91	99.07	86.284	8		
G	8.198	46.484	5.785	47.319	4.973	5.5	9.956	8.517	83.029	254		
H	7.847	49.032	47.411	51.565	6.443	9.69	215	9.176	83.5	9.403		

580 / 612 Red Fluorophore

Swap Data (A1<-->A12)

	1	2	3	4	5	6	7	8	9	10	11	12
A	0.612	0.782	0.575	0.524	0.138	0.213	-0.001	0.495	0.296	2.102	21767.9	0.343
B	0.158	0.872	0.525	0.741	0.113	0.329	0.218	0.17	0.173	1.789	22152.2	0.565
C	0.245	0.657	0.642	1.272	0.227	0.284	0.229	0.078	0.288	1.662	21851.2	0.369
D	0.356	0.679	0.686	0.549	0.272	0.213	0.039	0.121	0.265	1.571	22251.7	0.293
E	0.254	0.631	0.568	0.581	0.24	-0.027	0.172	0.069	0.294	1.493	22232.6	0.229
F	0.24	0.617	0.722	0.93	0.487	0.167	0.388	0.424	0.366	1.716	22628.8	0.233
G	0.366	0.635	0.41	0.746	0.517	0.152	0.972	0.453	0.246	1.467	21988.2	0.31
H	0.343	0.784	0.633	0.758	0.315	0.425	0.303	0.232	0.42	1.826	22076.7	0.155

SA

Microplate Alignment & Crosstalk

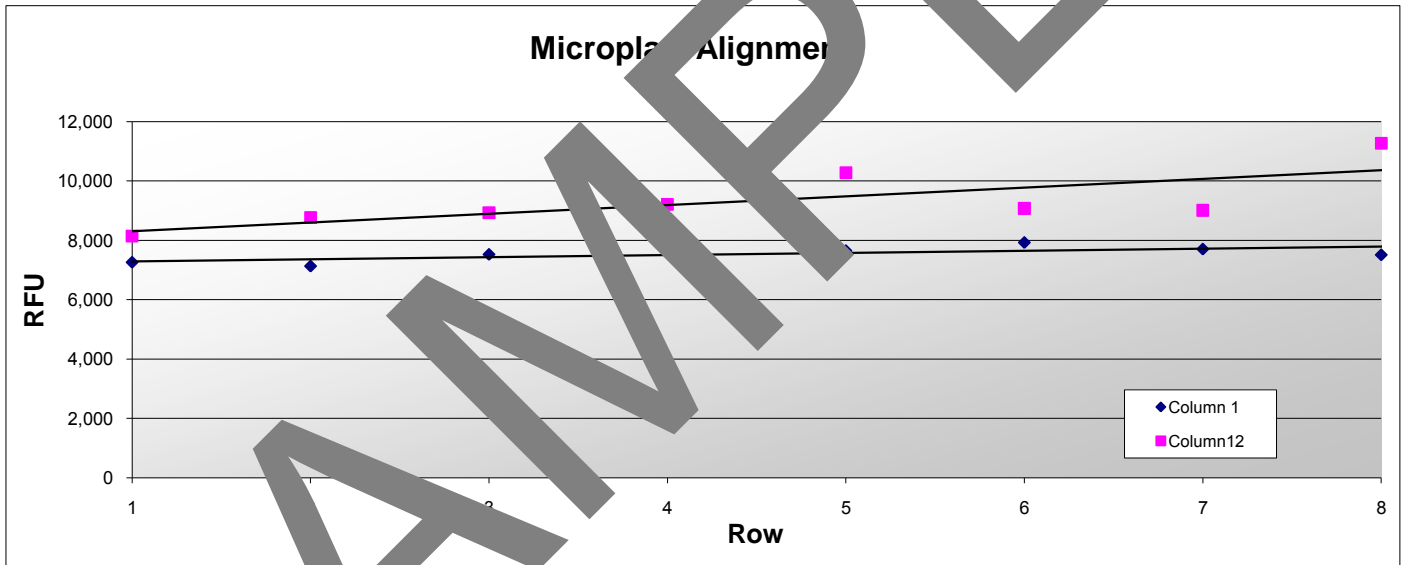
Technician: _____
 Instrument: _____
 Serial No: _____
 Date: _____

Company: _____
 Address1: _____
 Address2: _____
 City, St, Zip: _____

Notes: Temperature: 22 Degree C Relative Humidity: 44% Certificate References to: E890 Interval: 12 Months
 Standard Used: Fluorescence Test Plate AKID: AK014 Serial Number:221140 Procedure: AKOP-2000
 Standard's Cal Date: 07/30/2010 Standard's Due Date: 07/30/2011
 Technician's Signature: _____ Today's Date: 08/30/2010

Fluorescence Averages

	1	2	3	4	5	6	7	8	9	10	11	12
A	7,263	48,386	41,795	29,962	8,303	1,922	485	27	3	183	21,768	8,145
B	7,133	48,448	42,489	29,244	8,312	2,182	493	32	3	16	22,152	8,769
C	7,529	47,779	42,808	29,517	8,042	2,097	454	25	3	3	21,851	8,929
D	7,583	48,142	42,568	30,029	8,873	2,080	319	22	3	18	22,25	9,210
E	7,654	48,125	43,447	30,505	9,904	2,272	523	9	3	3	22,25	10,279
F	7,931	48,100	56,128	56,231	4	4	3	3	3	99	22,25	9,074
G	7,709	47,060	3	55,029	3	3	61,766	3	3	99	21,988	9,011
H	7,514	48,761	55,291	56,969	3	3	3	3	3	202	22,077	11,271



Alignment	
Mean Column 1	7540
Mean Column 12	9336
Standard Deviation (p) Column 1	261
Mean Column 2	975
% STD (p) Column 1	3.47%
% STD (p) Column 12	10.45%
Slope Column 1	66
Slope Column 12	293

Cross-Talk	
Mean Blank	3.2
Best Case Positive	61,766
Best Case Background	3.4
Percent Crosstalk	3E-06
Worst Case Negative	3.4
Worst Case Surrounding	52,946
Percent Crosstalk	3.62E-06

Results:

Alignment Column 1: **Reader Passes!**
 Alignment Column 12: **Reader Passes!**
 Alignment Left to Right: **Column 1 is > 20 % higher or lower than column 12, suggesting a plate-type mismatch.**
 Cross-Talk, Best Case: **Reader Passes!**
 Cross-Talk, Worst Case: **Reader Passes!**
 Signal to Noise (Col 8): **194 Reader Passes!**

Reader Linearity & Alternate Fluorophores

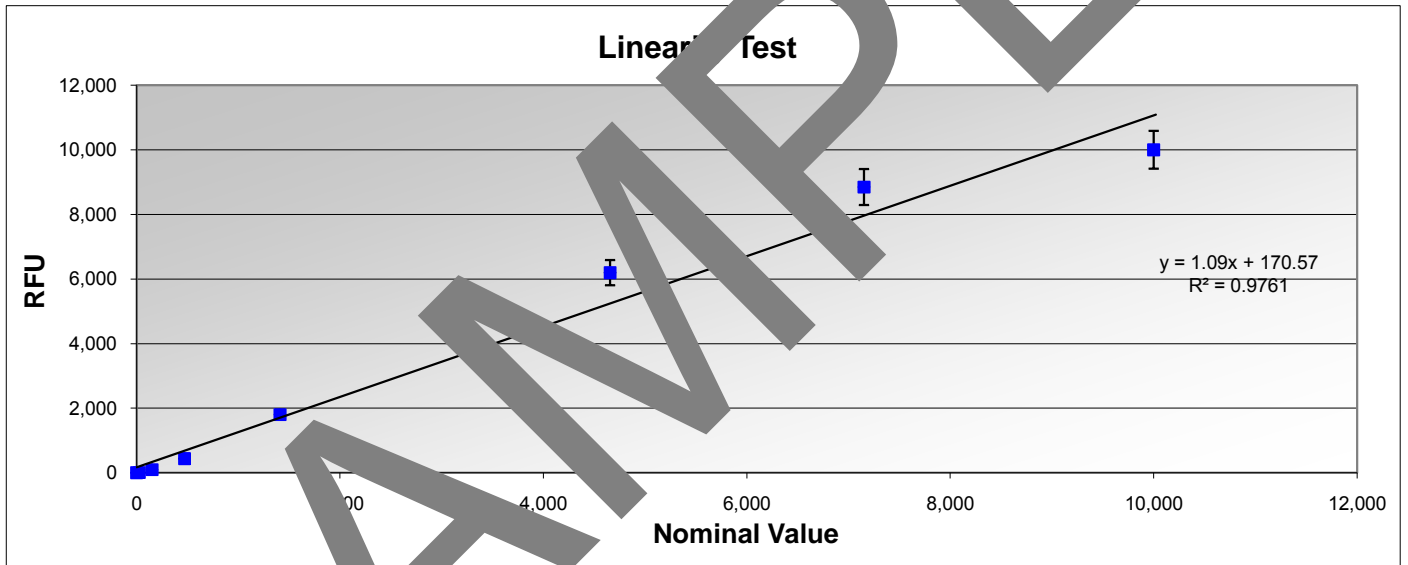
Technician: _____
 Instrument: _____
 Serial No: _____
 Date: _____

Company: _____
 Address1: _____
 Address2: _____
 City, St, Zip: _____

Notes: Temperature: 22 Degree C Relative Humidity: 44% Certificate References to: E890 Interval: 12 Months
 Standard Used: Fluorescence Test Plate AKID: AK014 Serial Number:221140 Procedure: AKOP-2000
 Standard's Cal Date: 07/30/2010 Standard's Due Date: 07/30/2011
 Technician's Signature: _____ Today's Date: 08/30/2010

Fluorescence Averages

	1	2	3	4	5	6	7	8	9	10	11	12
A	7,263	48,386	41,795	29,962	8,303	1,922	485	27	3	183	22,768	8,145
B	7,133	48,448	42,489	29,244	8,312	2,182	493	32	3	162	22,152	8,769
C	7,529	47,779	42,808	29,517	8,042	2,097	454	25	3	177	21,851	8,229
D	7,583	48,142	42,568	30,029	8,873	2,080	319	22	3	177	22,252	8,210
E	7,654	48,125	43,447	30,505	9,904	2,272	523	9	3	111	22,231	10,279
F	7,931	48,100	56,128	56,231	4	4	3	2	3	99	22,231	9,074
G	7,709	47,060	3	55,029	3	3	61,766	3	3	99	22,231	9,011
H	7,514	48,761	55,291	56,969	3	3	3	3	3	202	22,077	11,271



Normalized Value: 10,000

QC Pak	QC Pak	QC Pak	Nominal	Normal	3 x
Mean	Std Dev	Mean	Value	Std Dev	Std Dev
4817	10,000	10,000	10,000	195.0	585.1
42621	894	8,847	7,152	185.6	556.8
29851	627	6,100	4,655	130.1	390.3
8687	242	4,153	1,411	50.5	151.4
2111	3	438	472	7.9	23.6
455	6	94	152	1.2	3.5
23	0	5	29	0.1	0.3
3	0	0.7	1.0	0.0	0.1

Blue 320 / 420	
Mean	136
Std Dev	38
% StdDev	27.9%
Blank	10
Std Dev	3.4

Red 580 / 612	
Mean	22,119
Std Dev	251
% StdDev	1.14%
Blank	0
Std Dev	0.1

Results:

Linearity Relative to Nominal: **Reader Passes!**
 Same-Well Precision (High): **Reader Passes!**
 Same-Well Precision (Low): **Reader Passes!**
 Blue Signal: **Blue signal is less than 20 x background, suggesting bad or inappropriate filters.**
 Red Signal: **Reader Passes!**