Intro

Basic Endpoint Protocol

Use this protocol for endpoint assays that have unknowns that will have concentrations interpolated from a standard curve. Modify the instrument setup for the wavelength(s) of interest for your assay. You may also modify the template to include additional standards, unknowns, and controls. To make modifications, click the plate section to make it active.

READER SUITABILITY:
SpectraMax M2, M2e, M3, M4, M5, and M5e.
SpectraMax Plus 384, 190, SpectraMax 190, 340PC 384 and VersaMax
Emax and Vmax

PROTOCOL REVISION HISTORY:
03/02/11 - Imported from 5.4 and edited. (ELM)
10/11/11 - Updated with the additional instruments supported in SMP 6.1

Plate1

	1	2	3	4	5	6	7	8	9	10	11	12
A	2.1e7	1.8e6	2.0e5	3.2e4	2.1e7	1.9e6	2.1e5	3.4e4	2.1e7	1.8e6	2.0e5	3.6e4
B	3.5e5	5.2e5	4.2e5	3.9e5	3.5e5	2.8e5	3.3e5	3.9e5	3.8e5	3.2e5	3.2e5	3.1e5
C	3.7e5	3.4e5	3.1e5	3.4e5	2.7e5	2.8e5	3.3e5	4.0e5	5.4e5	3.6e5	2.4e5	4.8e5
D	3.6e5	8.5e4	3.8e5	2.4e5	2.3e5	4.3e5	3.5e5	3.4e5	3.0e5	3.9e5	2.8e5	3.7e5
E	7713.0	9137.0	7491.0	6909.0	6930.0	1.0e4	7022.0	7309.0	7953.0	7807.0	8741.0	8784.0
F	6623.0	6429.0	6667.0	6622.0	8600.0	5729.0	6060.0	7075.0	6025.0	5521.0	6440.0	5959.0
G	4.0e5	3.2e5	3.5e5	5.7e5	5.4e5	4.7e5	5.9e5	3.1e5	4.8e5	2.4e5	2.6e5	2.0e5
H	1.5e5	4.9e5	2.5e5	5.5e5	3.9e5	5.3e5	6.4e5	1.0e6	1.0e6	1.0e6	8.6e5	4.4e5

Settings Information

Endpoint
- Fluorescence
  - Lm1 485, 535
  - Slide(s) Ex1, Em1
- More Settings
  - Shake Off
  - ReadOrder Row
  - Show Optimizer On
- PMT and Optics
  - Integration Time 400 ms
  - Read from Top
  - Read Height 1.00 mm

Read Information

FilterMax F5
ROM vV1.1 b32 10.12.2010
Start Read : 1:56 PM
12/19/2014

Mean Temperature : 25.5 °C

Reduction Settings

Wavelength Combination : !Lm1

Standards

Sample	Conc	BackCalcConc	Wells	Value	MeanValue	SD	CV
standard	10.000	10.881	A1	2080...	19131557....	21...	11.5
		11.016	A5	2106...			
		11.087	A9	2120...			
		9.077	A1	1735...			
		10.218	A5	1953...			
		10.501	A9	2008...			
		7.495	A1	1432...			
		10.081	A5	1927...			
		9.692	A12	1853...			
standar...	1.000	0.952	A2	1782...	1767335.667	50...	2.9
		0.990	A6	1856...			
		0.953	A10	1784...			
		0.921	A2	1722...			
		0.932	A6	1744...			
		0.907	A10	1697...			
		0.939	A2	1757...			
		0.974	A6	1825...			
		0.927	A11	1734...			
standar...	0.100	0.128	A3	2043...	193429.667	10...	5.5
		0.131	A7	2088...			
		0.128	A11	2033...			
		0.119	A3	1874...			
		0.118	A7	1848...			
		0.116	A11	1812...			
		0.124	A3	1971...			
		0.115	A7	1798...			
		0.123	A10	1937...			
standar...	0.010	0.038	A4	3166...	32313.222	26...	8.3
		0.039	A8	3431...			
		0.040	A12	3591...			
		0.040	A4	3502...			
		0.038	A8	3217...			
		0.036	A12	2788...			
		0.039	A4	3366...			
		0.037	A8	2930...			
		0.038	A9	3086...			

Smallest standard value: 32313.222

Largest standard value: 19131557.778

Plate3

	1	2	3	4	5	6	7	8	9	10	11	12
A	1.4e7	1.8e6	2.0e5	3.4e4	1.9e7	1.8e6	1.8e5	2.9e4	3.1e4	1.9e5	1.7e6	1.9e7
B	2.6e5	6.9e5	4.4e5	8.5e5	2.8e5	1.4e5	2.1e5	7.9e5	4.6e5	2.5e5	6.7e5	8.0e5
C	3.4e5	2.9e5	3.5e5	4.7e5	9.4e5	4.9e5	7.1e5	8.2e5	8.1e5	4.8e5	5.7e5	3.1e5
D	4.7e5	4.4e5	1.2e6	7.9e5	9.7e5	5.4e5	6.7e5	2.5e5	8.1e5	5.7e5	4.7e5	4.3e5
E	4.6e5	2.6e5	2.8e5	2.8e5	3.5e5	3.0e5	3.6e5	3.9e5	6.5e5	5.9e5	9.4e5	5867.0
F	867.00	832.00	834.00	859.00	894.00	807.00	802.00	802.00	912.00	825.00	793.00	890.00
G	775.00	947.00	772.00	807.00	767.00	854.00	824.00	889.00	727.00	934.00	869.00	902.00
H	791.00	836.00	814.00	826.00	859.00	809.00	794.00	859.00	792.00	891.00	807.00	824.00

Reduction Settings
Wavelength Combination : !Lm1

Settings Information
Endpoint
Fluorescence
Lm1 485, 535
Slide(s) Ex1, Em1
More Settings
Shake Off
ReadOrder Row
Show Optimizer On
PMT and Optics
Integration Time 400 ms
Read from Top
Read Height 1.00 mm

Read Information
FilterMax F5
ROM vV1.1 b32 10.12.2010
Start Read : 2:14 PM
12/19/2014

Mean Temperature : 26.5 °C

Unknowns

Sample	Wells	Value	R	Result	MeanResult	SD	CV
01	B1	3535...		0.206	0.206	0....	0.0
02	B2	5161...		0.291	0.291	0....	0.0
03	B3	4228...		0.242	0.242	0....	0.0
04	B4	3935...		0.227	0.227	0....	0.0
05	B5	3539...		0.206	0.206	0....	0.0
06	B6	2810...		0.168	0.168	0....	0.0
07	B7	3347...		0.196	0.196	0....	0.0
08	B8	3863...		0.223	0.223	0....	0.0
085	B1	3835...		0.222	0.222	0....	0.0
086	B2	4239...		0.243	0.243	0....	0.0
087	B3	5795...		0.324	0.324	0....	0.0
088	B4	5681...		0.318	0.318	0....	0.0
089	B5	5121...		0.289	0.289	0....	0.0
09	B9	3784...		0.219	0.219	0....	0.0
090	B6	3225...		0.190	0.190	0....	0.0
091	B7	2656...		0.160	0.160	0....	0.0
092	B8	2955...		1.564	1.564	0....	0.0
093	B9	3403...		0.199	0.199	0....	0.0
094	B10	2971...		0.177	0.177	0....	0.0
095	B11	3429...		1.811	1.811	0....	0.0
096	B12	3974...		0.229	0.229	0....	0.0
097	C1	5209...		0.293	0.293	0....	0.0
098	C2	5062...		0.286	0.286	0....	0.0
099	C3	3322...		0.195	0.195	0....	0.0
10	B10	3237...		0.190	0.190	0....	0.0
100	C4	2754...		0.165	0.165	0....	0.0
101	C5	2585...		0.156	0.156	0....	0.0
102	C6	3840...		0.222	0.222	0....	0.0
103	C7	4564...		0.260	0.260	0....	0.0
104	C8	4703...		0.267	0.267	0....	0.0
105	C9	3913...		0.226	0.226	0....	0.0
106	C10	3886...		0.224	0.224	0....	0.0
107	C11	4250...		0.243	0.243	0....	0.0
108	C12	7128...		0.394	0.394	0....	0.0
109	D1	3043...		0.180	0.180	0....	0.0
11	B11	3215...		0.189	0.189	0....	0.0
110	D2	3896...		0.225	0.225	0....	0.0
111	D3	2618...		0.158	0.158	0....	0.0
112	D4	3125...		0.185	0.185	0....	0.0
113	D5	1854...		0.118	0.118	0....	0.0
114	D6	1161...		0.628	0.628	0....	0.0
115	D7	2302...		0.142	0.142	0....	0.0
116	D8	2568...		0.156	0.156	0....	0.0
117	D9	1994...		0.126	0.126	0....	0.0
118	D10	2147...		0.134	0.134	0....	0.0
119	D11	2113...		0.132	0.132	0....	0.0
12	B12	3114...		0.184	0.184	0....	0.0
120	D12	2622...		0.158	0.158	0....	0.0
121	E1	1924...		0.122	0.122	0....	0.0
122	E2	2093...		0.131	0.131	0....	0.0
123	E3	3226...		0.190	0.190	0....	0.0
124	E4	1770...		0.114	0.114	0....	0.0
125	E5	4570...		0.260	0.260	0....	0.0
126	E6	2309...		0.142	0.142	0....	0.0
127	E7	2988...		0.177	0.177	0....	0.0
128	E8	5365...		0.302	0.302	0....	0.0
129	E9	2871...		0.171	0.171	0....	0.0

Unknowns (Contd)

Sample	Wells	Value	R	Result	MeanResult	SD	CV
13	C1	3709...		0.215	0.215	0....	0.0
130	E10	2909...		0.173	0.173	0....	0.0
131	E11	9702...		0.528	0.528	0....	0.0
132	E12	3944...		0.227	0.227	0....	0.0
133	F1	4289...		0.245	0.245	0....	0.0
134	F2	3997...		0.230	0.230	0....	0.0
135	F3	2764...		0.166	0.166	0....	0.0
136	F4	3310...		0.194	0.194	0....	0.0
137	F5	2037...		0.128	0.128	0....	0.0
138	F6	7372...		0.406	0.406	0....	0.0
139	F7	3139...		0.185	0.185	0....	0.0
14	C2	3375...		0.198	0.198	0....	0.0
140	F8	2151...		0.134	0.134	0....	0.0
141	F9	3164...		0.187	0.187	0....	0.0
142	F10	1920...		0.122	0.122	0....	0.0
143	F11	2238...		0.138	0.138	0....	0.0
144	F12	2255...		0.139	0.139	0....	0.0
145	G1	2319...		0.143	0.143	0....	0.0
146	G2	2780...		0.167	0.167	0....	0.0
147	G3	2173...		0.135	0.135	0....	0.0
148	G4	2367...		0.145	0.145	0....	0.0
149	G5	2636...		0.159	0.159	0....	0.0
15	C3	3140...		0.185	0.185	0....	0.0
150	G6	3297...		0.194	0.194	0....	0.0
151	G7	6004...		0.335	0.335	0....	0.0
152	G8	5744...		0.321	0.321	0....	0.0
153	G9	6665...		0.369	0.369	0....	0.0
154	G10	3178...		0.187	0.187	0....	0.0
155	G11	4420...		0.252	0.252	0....	0.0
156	G12	3492...		0.204	0.204	0....	0.0
157	H1	3117...		0.184	0.184	0....	0.0
158	H2	2805...		0.168	0.168	0....	0.0
159	H3	3162...		0.187	0.187	0....	0.0
16	C4	3401...		0.199	0.199	0....	0.0
160	H4	3140...		0.185	0.185	0....	0.0
161	H5	3268...		0.192	0.192	0....	0.0
162	H6	3959...		0.228	0.228	0....	0.0
163	H7	3403...		0.199	0.199	0....	0.0
164	H8	3027...		0.180	0.180	0....	0.0
165	H9	2879...		0.172	0.172	0....	0.0
166	H10	3870...		0.224	0.224	0....	0.0
167	H11	3086...		0.183	0.183	0....	0.0
168	H12	3060...		0.181	0.181	0....	0.0
169	B1	2584...		0.156	0.156	0....	0.0
17	C5	2652...		0.160	0.160	0....	0.0
170	B2	6851...		0.379	0.379	0....	0.0
171	B3	4398...		0.251	0.251	0....	0.0
172	B4	8541...		0.467	0.467	0....	0.0
173	B5	2782...		0.167	0.167	0....	0.0
174	B6	1417...		0.095	0.095	0....	0.0
175	B7	2126...		0.132	0.132	0....	0.0
176	B8	7897...		0.434	0.434	0....	0.0
177	B9	4639...		0.264	0.264	0....	0.0
178	B10	2480...		0.151	0.151	0....	0.0
179	B11	6691...		0.371	0.371	0....	0.0
18	C6	2802...		0.168	0.168	0....	0.0
180	B12	8040...		0.441	0.441	0....	0.0

Unknowns (Contd)

Sample	Wells	Value	R	Result	MeanResult	SD	CV
181	C1	3381...		0.198	0.198	0....	0.0
182	C2	2915...		0.174	0.174	0....	0.0
183	C3	3480...		0.203	0.203	0....	0.0
184	C4	4693...		0.266	0.266	0....	0.0
185	C5	9436...		0.514	0.514	0....	0.0
186	C6	4913...		0.278	0.278	0....	0.0
187	C7	7054...		0.390	0.390	0....	0.0
188	C8	8227...		0.451	0.451	0....	0.0
189	C9	8070...		0.443	0.443	0....	0.0
19	C7	3295...		0.193	0.193	0....	0.0
190	C10	4823...		0.273	0.273	0....	0.0
191	C11	5686...		0.318	0.318	0....	0.0
192	C12	3118...		0.184	0.184	0....	0.0
193	D1	4705...		0.267	0.267	0....	0.0
194	D2	4404...		0.251	0.251	0....	0.0
195	D3	1215...		0.656	0.656	0....	0.0
196	D4	7945...		0.436	0.436	0....	0.0
197	D5	9725...		0.529	0.529	0....	0.0
198	D6	5411...		0.304	0.304	0....	0.0
199	D7	6731...		0.373	0.373	0....	0.0
20	C8	3966...		0.229	0.229	0....	0.0
200	D8	2483...		0.151	0.151	0....	0.0
201	D9	8118...		0.445	0.445	0....	0.0
202	D10	5720...		0.320	0.320	0....	0.0
203	D11	4693...		0.266	0.266	0....	0.0
204	D12	4332...		0.248	0.248	0....	0.0
205	E1	4590...		0.261	0.261	0....	0.0
206	E2	2560...		0.155	0.155	0....	0.0
207	E3	2766...		0.166	0.166	0....	0.0
208	E4	2848...		0.170	0.170	0....	0.0
209	E5	3471...		0.203	0.203	0....	0.0
21	C9	5380...		0.302	0.302	0....	0.0
210	E6	3004...		0.178	0.178	0....	0.0
211	E7	3637...		0.211	0.211	0....	0.0
212	E8	3885...		0.224	0.224	0....	0.0
213	E9	6474...		0.359	0.359	0....	0.0
214	E10	5933...		0.331	0.331	0....	0.0
215	E11	9407...		0.512	0.512	0....	0.0
216	E12	5867....	R	0.025	0.025	0....	0.0
22	C10	3556...		0.207	0.207	0....	0.0
23	C11	2367...		0.145	0.145	0....	0.0
24	C12	4841...		0.274	0.274	0....	0.0
25	D1	3594...		0.209	0.209	0....	0.0
26	D2	8526...		0.066	0.066	0....	0.0
27	D3	3817...		0.221	0.221	0....	0.0
28	D4	2418...		0.148	0.148	0....	0.0
29	D5	2287...		0.141	0.141	0....	0.0
30	D6	4322...		0.247	0.247	0....	0.0
31	D7	3466...		0.202	0.202	0....	0.0
32	D8	3444...		0.201	0.201	0....	0.0
33	D9	2961...		0.176	0.176	0....	0.0
34	D10	3863...		0.223	0.223	0....	0.0
35	D11	2834...		0.169	0.169	0....	0.0
36	D12	3748...		0.217	0.217	0....	0.0
37	E1	7713....	R	0.026	0.026	0....	0.0
38	E2	9137....	R	0.026	0.026	0....	0.0
39	E3	7491....	R	0.025	0.025	0....	0.0

Unknowns (Contd)

Sample	Wells	Value	R	Result	MeanResult	SD	CV
40	E4	6909....	R	0.025	0.025	0....	0.0
41	E5	6930....	R	0.025	0.025	0....	0.0
42	E6	1016...	R	0.027	0.027	0....	0.0
43	E7	7022....	R	0.025	0.025	0....	0.0
44	E8	7309....	R	0.025	0.025	0....	0.0
45	E9	7953....	R	0.026	0.026	0....	0.0
46	E10	7807....	R	0.026	0.026	0....	0.0
47	E11	8741....	R	0.026	0.026	0....	0.0
48	E12	8784....	R	0.026	0.026	0....	0.0
49	F1	6623....	R	0.025	0.025	0....	0.0
50	F2	6429....	R	0.025	0.025	0....	0.0
51	F3	6667....	R	0.025	0.025	0....	0.0
52	F4	6622....	R	0.025	0.025	0....	0.0
53	F5	8600....	R	0.026	0.026	0....	0.0
54	F6	5729....	R	0.025	0.025	0....	0.0
55	F7	6060....	R	0.025	0.025	0....	0.0
56	F8	7075....	R	0.025	0.025	0....	0.0
57	F9	6025....	R	0.025	0.025	0....	0.0
58	F10	5521....	R	0.024	0.024	0....	0.0
59	F11	6440....	R	0.025	0.025	0....	0.0
60	F12	5959....	R	0.025	0.025	0....	0.0
61	G1	3960...		0.228	0.228	0....	0.0
62	G2	3202...		0.189	0.189	0....	0.0
63	G3	3533...		0.206	0.206	0....	0.0
64	G4	5748...		0.322	0.322	0....	0.0
65	G5	5380...		0.302	0.302	0....	0.0
66	G6	4743...		0.269	0.269	0....	0.0
67	G7	5861...		0.327	0.327	0....	0.0
68	G8	3090...		0.183	0.183	0....	0.0
69	G9	4766...		0.270	0.270	0....	0.0
70	G10	2401...		0.147	0.147	0....	0.0
71	G11	2555...		0.155	0.155	0....	0.0
72	G12	1986...		0.125	0.125	0....	0.0
73	H1	1521...		0.101	0.101	0....	0.0
74	H2	4890...		0.277	0.277	0....	0.0
75	H3	2510...		0.153	0.153	0....	0.0
76	H4	5460...		0.306	0.306	0....	0.0
77	H5	3895...		0.225	0.225	0....	0.0
78	H6	5337...		0.300	0.300	0....	0.0
79	H7	6445...		0.358	0.358	0....	0.0
80	H8	1026...		0.557	0.557	0....	0.0
81	H9	1004...		0.546	0.546	0....	0.0
82	H10	1028...		0.558	0.558	0....	0.0
83	H11	8574...		0.469	0.469	0....	0.0
84	H12	4411...		0.252	0.252	0....	0.0

R - Outside standard range

Unk_Dilution

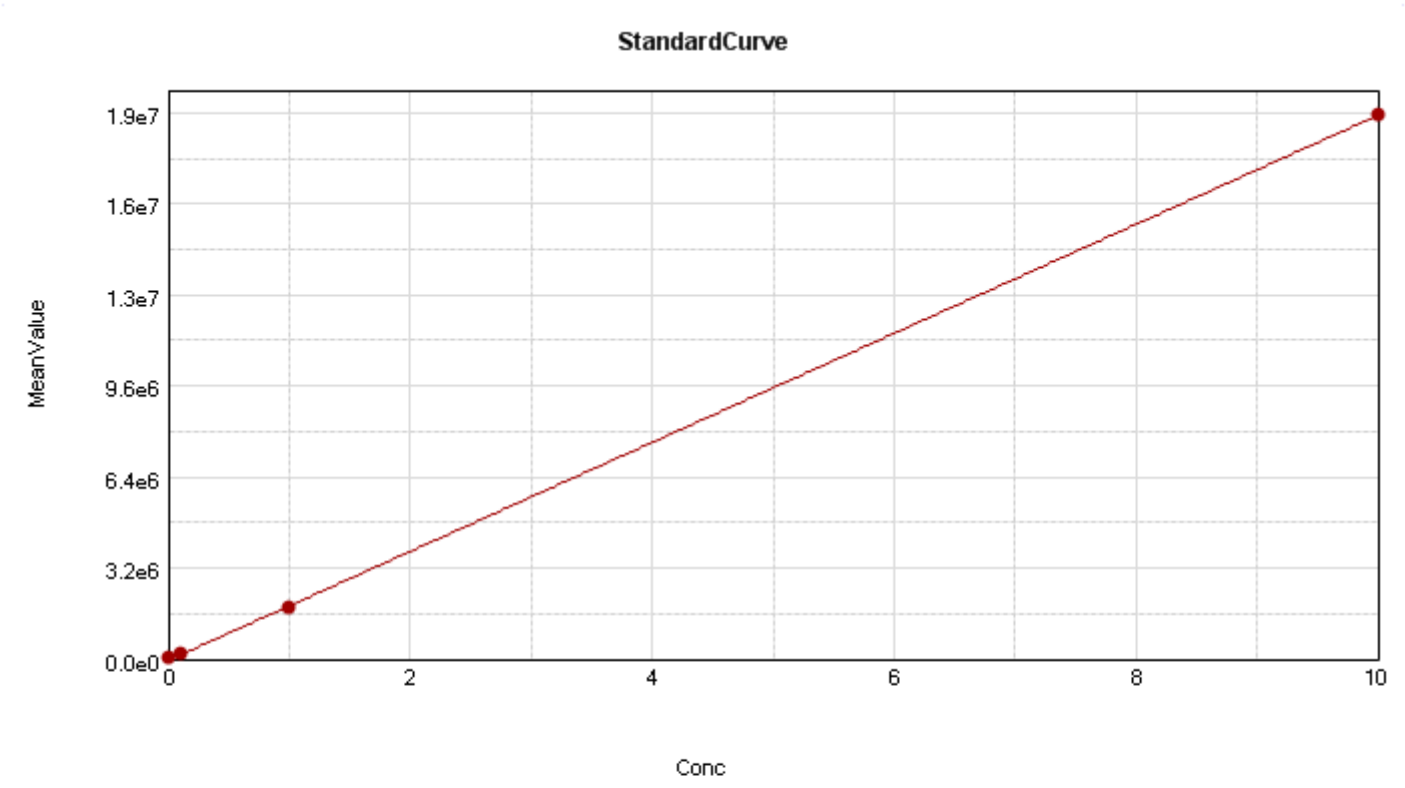
Sample	Wells	Value	R	Result	MeanResult	SD	CV	Dilution	AdjResult

R - Outside standard range

Mean Adjusted Result:

Control

Sample	Wells	Sample#	Values	MeanValue



Curve Fit Results ▲

Curve Fit : Linear $y = A + Bx$

	Parameter	Estimated Value	Std. Error	Confidence Interval
Std $R^2 = 1.000$	A	-4.12e+4	5.45e+4	[-2.76e+5, 1.93e+5]
	B	1.92e+6	1.08e+4	[1.87e+6, 1.96e+6]

Plate2

	1	2	3	4	5	6	7	8	9	10	11	12
A	1.7e7	1.7e6	1.9e5	3.5e4	2.0e7	1.7e6	1.8e5	3.2e4	2.0e7	1.7e6	1.8e5	2.8e4
B	3.8e5	4.2e5	5.8e5	5.7e5	5.1e5	3.2e5	2.7e5	3.0e6	3.4e5	3.0e5	3.4e6	4.0e5
C	5.2e5	5.1e5	3.3e5	2.8e5	2.6e5	3.8e5	4.6e5	4.7e5	3.9e5	3.9e5	4.3e5	7.1e5
D	3.0e5	3.9e5	2.6e5	3.1e5	1.9e5	1.2e6	2.3e5	2.6e5	2.0e5	2.1e5	2.1e5	2.6e5
E	1.9e5	2.1e5	3.2e5	1.8e5	4.6e5	2.3e5	3.0e5	5.4e5	2.9e5	2.9e5	9.7e5	3.9e5
F	4.3e5	4.0e5	2.8e5	3.3e5	2.0e5	7.4e5	3.1e5	2.2e5	3.2e5	1.9e5	2.2e5	2.3e5
G	2.3e5	2.8e5	2.2e5	2.4e5	2.6e5	3.3e5	6.0e5	5.7e5	6.7e5	3.2e5	4.4e5	3.5e5
H	3.1e5	2.8e5	3.2e5	3.1e5	3.3e5	4.0e5	3.4e5	3.0e5	2.9e5	3.9e5	3.1e5	3.1e5

Reduction Settings
Wavelength Combination : !Lm1

Settings Information
Endpoint
Fluorescence
Lm1 485, 535
Slide(s) Ex1, Em1
More Settings
Shake Off
ReadOrder Row
Show Optimizer On
PMT and Optics
Integration Time 400 ms
Read from Top
Read Height 1.00 mm

Read Information
FilterMax F5
ROM vV1.1 b32 10.12.2010
Start Read : 2:05 PM
12/19/2014

Mean Temperature : 26 °C