

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												
B												
C												
D												
E												
F												
G												
H												

Settings Information

Endpoint
 ▲ Absorbance
 Lm1 405
 ▲ More Settings
 Shake Off
 Calibrate On
 Column Priority

Reduction Settings

Optical Density
 Wavelength Combination : !Lm1

Standards

Sample	Conc	BackCalcConc	Wells	Value	MeanValue	SD	CV
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Smallest standard value:

Largest standard value:

Unknowns

Sample	Wells	Value	R	Result	MeanResult	SD	CV
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R - Outside standard range

Unk_Dilution

Sample	Wells	Value	R	Result	MeanResult	SD	CV	Dilution	AdjResult
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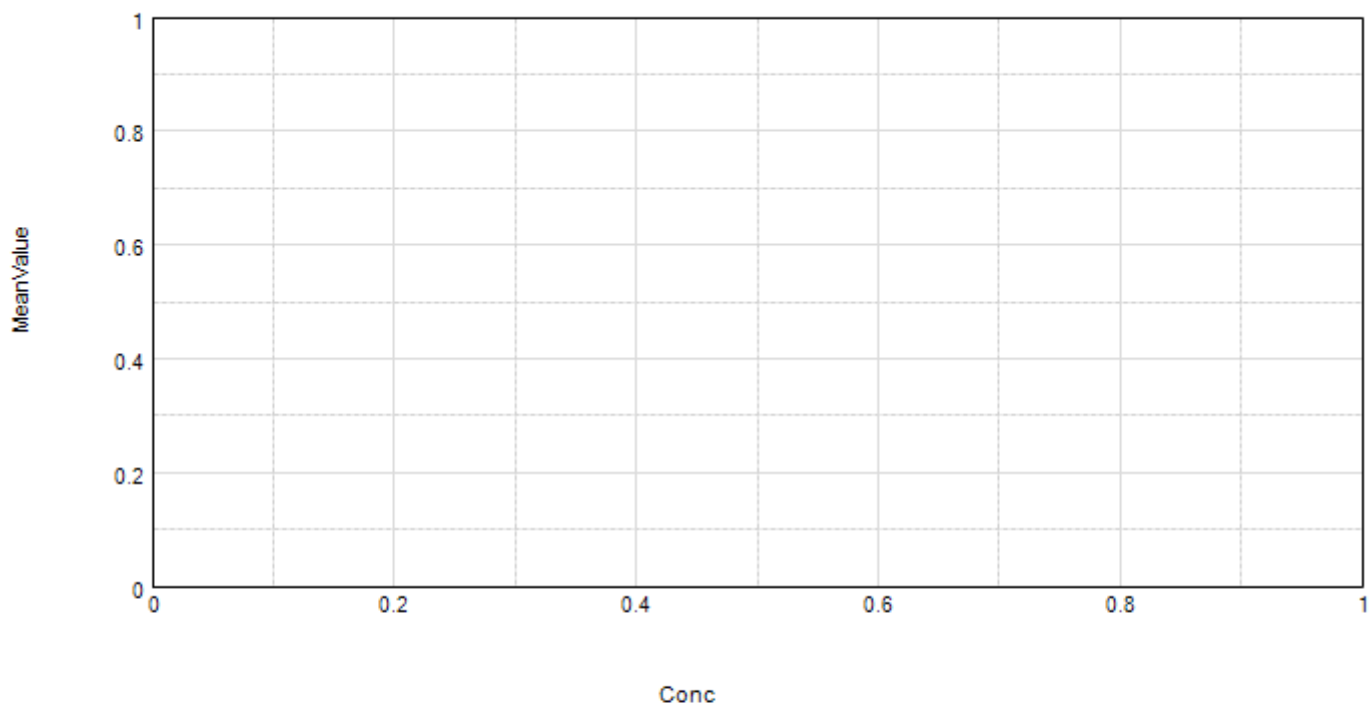
R - Outside standard range

Mean Adjusted Result:

Control

Sample	Wells	Sample#	Values	MeanValue
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StandardCurve



● Std (Standards: MeanVal... vs Conc)

Curve Fit Results ▲

Curve Fit : Linear $y = A + Bx$

	Parameter	Estimated Value	Std. Error	Confidence Interval
Std $R^2 =$	A		No Data Available...	
	B		No Data Available...	

Plate1

	1	2	3	4	5	6	7	8	9	10	11	12
A	1.6e7	5.1e6	6.5e6	9.0e6	6.4e6	2.8e6	6.5e7	6.5e7	6.2e7	5.8e7	251.69	-265.3
B	5.4e6	7.7e6	1.2e7	7.9e6	8.9e6	3.8e6	4.9e7	4.3e7	3.8e7	5.5e7	598.69	2859.7
C	9.2e6	1.2e7	5.5e6	5.3e6	1.0e7	4.3e6	2.1e7	2.2e7	2.4e7	2.5e7	-253.3	-139.3
D	1.5e7	7.6e6	1.2e7	7.9e6	8.9e6	4.2e6	1.4e7	1.0e7	1.0e7	1.5e7	941.69	-2493
E	1.3e7	7.9e6	1.0e7	6.7e6	7.2e6	7.3e6	6.7e6	4.5e6	4.5e6	6.2e6	617.69	-779.3
F	9.5e6	8.6e6	7.0e6	1.2e7	2.7e6	5.0e6	3.5e6	3.1e6	3.5e6	3.1e6	690.69	-835.3
G	1.4e7	9.1e6	6.9e6	5.3e6	5.5e6	4.4e6	1.6e6	1.4e6	1.6e6	1.6e6	-1519	750.69
H	3.1e6	3.7e6	5.7e6	8.8e6	5.9e6	4.0e6	6.5e5	7.0e5	4.9e5	6.9e5	83.688	-509.3

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

Filter/Max F5
 ROM vV1.1 b32 10.12.2010
 Start Read : 10:01 AM
 4/19/2017
 Temperature Set Point : 37 °C
 Mean Temperature : 36.5 °C

Reduction Settings

Group Blank Used (Raw Values)
 Wavelength Combination : !Lm1

Standards

Sample	Conc	BackCalcConc	Wells	Value	MeanValue	SD	CV
01	125....	119.457	A7	6473...	62662082....	31...	5.0
		120.590	A8	6531...			
		114.441	A9	6220...			
		106.908	A10	5839...			
02	63.340	87.732	B7	4869...	46210592....	75...	16.4
		76.989	B8	4326...			
		65.696	B9	3755...			
		100.819	B10	5531...			
03	32.100	33.027	C7	2104...	22888884....	16...	7.2
		35.209	C8	2214...			
		37.962	C9	2353...			
		40.524	C10	2483...			
04	0.000	18.187	D7	1353...	12108012....	22...	18.8
		11.469	D8	1014...			
		11.592	D9	1020...			
		20.179	D10	1454...			
05	7.600	4.714	E7	6727...	5476250.438	11...	20.8
		0.347	E8	4519...			
		0.312	E9	4501...			
		3.585	E10	6156...			
06	4.210	-1.665	F7	3502...	3327082.688	22...	6.8
		-2.421	F8	3119...			
		-1.590	F9	3540...			
		-2.369	F10	3146...			
07	2.720	-5.484	G7	1571...	1533256.938	11...	7.7
		-5.908	G8	1357...			
		-5.426	G9	1600...			
		-5.420	G10	1603...			
08	2.070	-7.306	H7	6504...	631075.438	99...	15.8
		-7.203	H8	7022...			
		-7.632	H9	4851...			
		-7.234	H10	6864...			

Smallest standard value: 631075.438

Largest standard value: 62662082.688

Unknowns

Sample	Wells	Value	R	Result	MeanResult	SD	CV
01	A1	1613...		23.330	23.330	0....	0.0
02	B1	5410...		2.110	2.110	0....	0.0
03	C1	9181...		9.569	9.569	0....	0.0
04	D1	1516...		21.402	21.402	0....	0.0
05	E1	1290...		16.941	16.941	0....	0.0
06	F1	9539...		10.276	10.276	0....	0.0
07	G1	1392...		18.943	18.943	0....	0.0
08	H1	3133...		-2.395	-2.395	0....	0.0
09	A2	5130...		1.556	1.556	0....	0.0
10	B2	7712...		6.664	6.664	0....	0.0
11	C2	1228...		15.704	15.704	0....	0.0
12	D2	7617...		6.475	6.475	0....	0.0
13	E2	7939...		7.111	7.111	0....	0.0
14	F2	8560...		8.340	8.340	0....	0.0
15	G2	9062...		9.334	9.334	0....	0.0
16	H2	3660...		-1.352	-1.352	0....	0.0
17	A3	6536...		4.337	4.337	0....	0.0
18	B3	1164...		14.440	14.440	0....	0.0
19	C3	5474...		2.235	2.235	0....	0.0
20	D3	1187...		14.897	14.897	0....	0.0
21	E3	1043...		12.042	12.042	0....	0.0
22	F3	7049...		5.352	5.352	0....	0.0
23	G3	6942...		5.139	5.139	0....	0.0
24	H3	5651...		2.586	2.586	0....	0.0
25	A4	9020...		9.250	9.250	0....	0.0
26	B4	7928...		7.090	7.090	0....	0.0
27	C4	5297...		1.887	1.887	0....	0.0
28	D4	7853...		6.942	6.942	0....	0.0
29	E4	6678...		4.617	4.617	0....	0.0
30	F4	1169...		14.543	14.543	0....	0.0
31	G4	5317...		1.925	1.925	0....	0.0
32	H4	8778...		8.772	8.772	0....	0.0
33	A5	6373...		4.014	4.014	0....	0.0
34	B5	8861...		8.934	8.934	0....	0.0
35	C5	1000...		11.203	11.203	0....	0.0
36	D5	8875...		8.963	8.963	0....	0.0
37	E5	7242...		5.734	5.734	0....	0.0
38	F5	2704...		-3.242	-3.242	0....	0.0
39	G5	5478...		2.245	2.245	0....	0.0
40	H5	5891...		3.060	3.060	0....	0.0
41	A6	2831...		-2.991	-2.991	0....	0.0
42	B6	3790...		-1.094	-1.094	0....	0.0
43	C6	4257...		-0.170	-0.170	0....	0.0
44	D6	4199...		-0.285	-0.285	0....	0.0
45	E6	7254...		5.757	5.757	0....	0.0
46	F6	4980...		1.260	1.260	0....	0.0
47	G6	4395...		0.102	0.102	0....	0.0
48	H6	3973...		-0.732	-0.732	0....	0.0

R - Outside standard range

Unk_Dilution

Sample	Wells	Value	R	Result	MeanResult	SD	CV	Dilution	AdjResult
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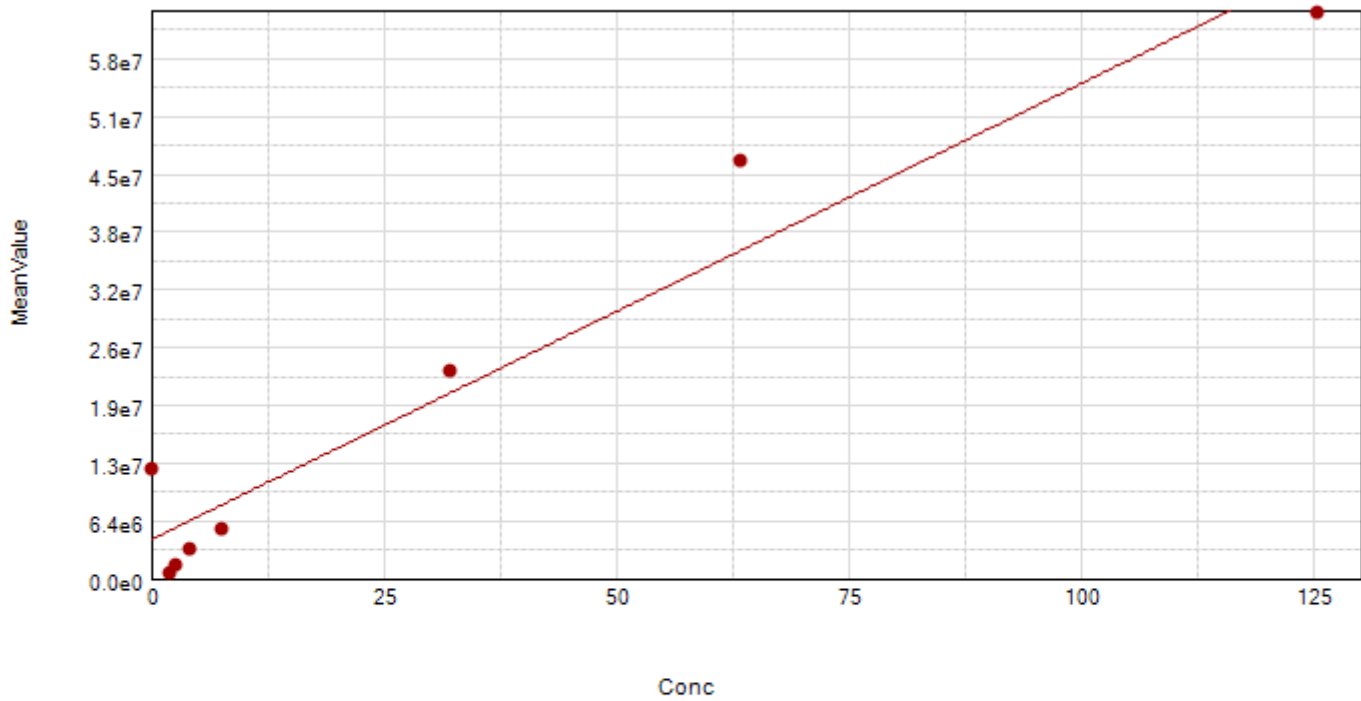
R - Outside standard range

Mean Adjusted Result:

Control

Sample	Wells	Sample#	Values	MeanValue
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StandardCurve



● Std (Standards: MeanVal... vs Conc)

Curve Fit Results ▲

Curve Fit : Linear $y = A + Bx$

	Parameter	Estimated Value	Std. Error	Confidence Interval
Std $R^2 = 0.935$	A	4.34e+6	2.78e+6	[-2.47e+6, 1.12e+7]
	B	5.06e+5	5.45e+4	[3.72e+5, 6.39e+5]