

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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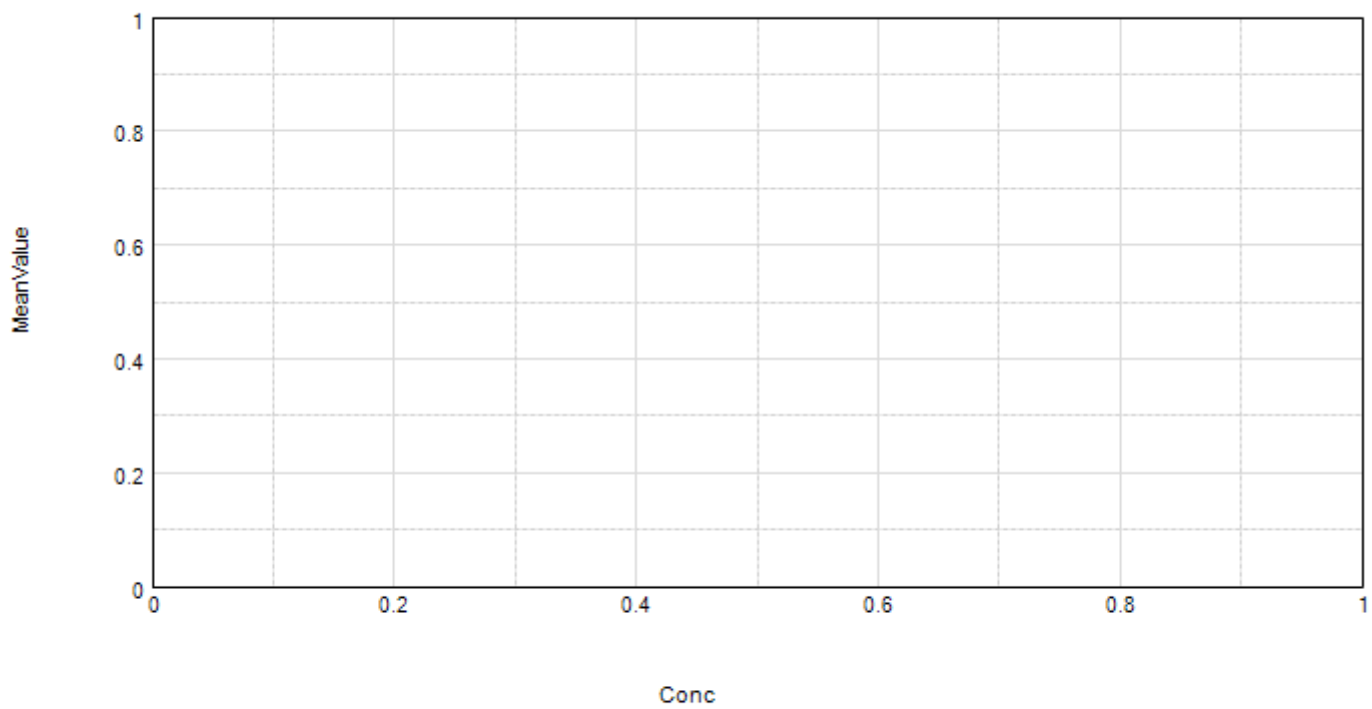
R - Outside standard range

Mean Adjusted Result:

Control

Sample	Wells	Sample#	Values	MeanValue
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StandardCurve



● Std (Standards: MeanVal... vs Conc)

Curve Fit Results ▼

Plate1

	1	2	3	4	5	6	7	8	9	10	11	12
A	5.7e6	1.6e6	1.2e6	3.4e6	3.7e6	3.5e7	5.1e7	3.0e7	4.6e7	-9812	-1.1e4	-1.1e4
B	1.0e6	3.6e5	1.3e6	1.3e7	7.3e6	6.9e6	1.3e7	1.2e7	2.0e7	-8184	-1.0e4	-9432
C	2.5e6	6.2e5	1.1e6	2.1e5	1.2e7	5.6e6	1.5e7	8.9e6	6.5e6	-9606	-1.0e4	-9507
D	1.4e6	2.2e6	1.5e6	1.3e7	1.5e7	5.4e6	2.9e6	2.8e6	3.8e6	-9937	-8873	-1.0e4
E	6.8e5	2.2e6	1.1e6	1.2e6	7.7e6	3.4e6	4.5e6	1.6e6	2.0e6	-1.0e4	-9948	-1.0e4
F	2.7e6	1.4e6	4.7e5	1.3e6	1.1e6	1.2e6	1.2e6	8.5e5	1.3e6	-1.0e4	-9857	2.3e5
G	1.7e5	2.1e6	6.7e4	2.9e5	4.3e5	9.8e5	8.7e5	8.3e5	8.4e5	-1.0e4	-1.1e4	-1.1e4
H	1.4e5	1.4e6	3.3e4	6.2e4	2.1e5	6.3e5	9.1e5	6.4e5	5.8e5	-1.1e4	-9192	-1.0e4

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 : 4:13 PM
 4/19/2017
 Temperature Set Point : 37 °C
 Mean Temperature : 37 °C

Reduction Settings

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

Standards

Sample	Conc	BackCalcConc	Wells	Value	MeanValue	SD	CV
01	125....	117.833	A6	3540...	40657598....	94...	23.2
		167.109	A7	5055...			
		101.177	A8	3028...			
		153.592	A9	4639...			
02	63.340	25.079	B6	6889...	12854061....	53...	41.5
		43.458	B7	1253...			
		42.083	B8	1211...			
		67.307	B9	1987...			
03	32.100	20.895	C6	5603...	8998585.125	42...	46.9
		51.370	C7	1497...			
		31.726	C8	8932...			
		23.770	C9	6486...			
04	17.190	20.144	D6	5372...	3725555.875	11...	31.8
		12.151	D7	2915...			
		11.821	D8	2813...			
		15.031	D9	3800...			
05	7.860	13.835	E6	3432...	2883492.625	13...	45.8
		17.237	E7	4478...			
		7.904	E8	1609...			
		9.213	E9	2012...			
06	4.210	6.472	F6	1169...	1128517.375	19...	17.1
		6.629	F7	1217...			
		5.424	F8	8473...			
		6.829	F9	1279...			
07	2.720	5.869	G6	9841...	880803.375	71...	8.1
		5.501	G7	8710...			
		5.376	G8	8325...			
		5.385	G9	8354...			
08	2.070	4.724	H6	6323...	691030.125	14...	21.1
		5.615	H7	9059...			
		4.754	H8	6415...			
		4.568	H9	5841...			

Smallest standard value: 691030.125

Largest standard value: 40657598.875

Unknowns

Sample	Wells	Value	R	Result	MeanResult	SD	CV
01	A1	5660...		21.080	21.080	0....	0.0
02	B1	1048...		6.079	6.079	0....	0.0
03	C1	2490...		10.768	10.768	0....	0.0
04	D1	1437...		7.344	7.344	0....	0.0
05	E1	6762...	R	4.867	4.867	0....	0.0
06	F1	2657...		11.311	11.311	0....	0.0
07	G1	1700...	R	3.220	3.220	0....	0.0
08	H1	1394...	R	3.121	3.121	0....	0.0
09	A2	1630...		7.971	7.971	0....	0.0
10	B2	3644...	R	3.853	3.853	0....	0.0
11	C2	6236...	R	4.696	4.696	0....	0.0
12	D2	2170...		9.729	9.729	0....	0.0
13	E2	2187...		9.782	9.782	0....	0.0
14	F2	1383...		7.166	7.166	0....	0.0
15	G2	2066...		9.391	9.391	0....	0.0
16	H2	1404...		7.237	7.237	0....	0.0
17	A3	1238...		6.695	6.695	0....	0.0
18	B3	1296...		6.883	6.883	0....	0.0
19	C3	1139...		6.374	6.374	0....	0.0
20	D3	1451...		7.389	7.389	0....	0.0
21	E3	1061...		6.121	6.121	0....	0.0
22	F3	4653...	R	4.181	4.181	0....	0.0
23	G3	6686...	R	2.885	2.885	0....	0.0
24	H3	3290...	R	2.774	2.774	0....	0.0
25	A4	3384...		13.677	13.677	0....	0.0
26	B4	1321...		45.641	45.641	0....	0.0
27	C4	2133...	R	3.361	3.361	0....	0.0
28	D4	1266...		43.874	43.874	0....	0.0
29	E4	1153...		6.419	6.419	0....	0.0
30	F4	1337...		7.018	7.018	0....	0.0
31	G4	2874...	R	3.602	3.602	0....	0.0
32	H4	6203...	R	2.869	2.869	0....	0.0
33	A5	3675...		14.624	14.624	0....	0.0
34	B5	7250...		26.255	26.255	0....	0.0
35	C5	1182...		41.148	41.148	0....	0.0
36	D5	1481...		50.862	50.862	0....	0.0
37	E5	7738...		27.842	27.842	0....	0.0
38	F5	1092...		6.222	6.222	0....	0.0
39	G5	4333...	R	4.077	4.077	0....	0.0
40	H5	2122...	R	3.358	3.358	0....	0.0

R - Outside standard range

Unk_Dilution

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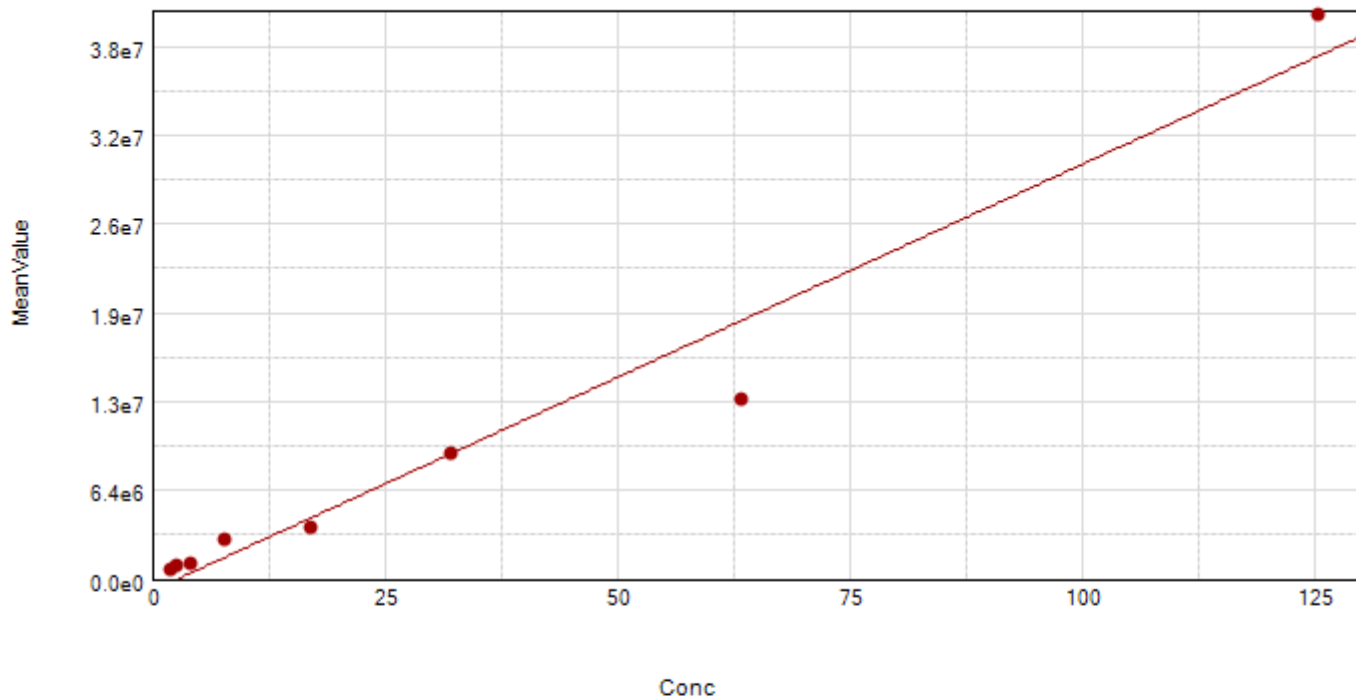
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StandardCurve



● Std (Standards: MeanVal... vs Conc)

Curve Fit Results ▲

Curve Fit : Linear $y = A + Bx$

	Parameter	Estimated Value	Std. Error	Confidence Interval
Std $R^2 = 0.964$	A	-8.20e+5	1.25e+6	[-3.88e+6, 2.24e+6]
	B	3.07e+5	2.43e+4	[2.48e+5, 3.67e+5]