

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	1.6e5	1.4e5	1.6e5	1.5e5	1.4e5	2.3e4	3.2e4	3.1e4	1.5e4	1.9e4	1.8e4	3.1e4
B	1.4e5	1.5e5	1.5e5	1.7e5	1.6e5	1.6e4	2.1e4	2.9e4	2.3e4	1.8e4	1.4e4	2.2e4
C	1.5e5	1.5e5	1.5e5	1.7e5	1.6e5	2.1e4	2.5e4	1.6e4	1.6e4	2.3e4	1.8e4	1.5e4
D	1.4e5	2.0e5	1.5e5	1.6e5	1.5e5	1.8e4	2.7e4	1.4e4	1.7e4	2.1e4	1.5e4	1.8e4
E	1.5e5	1.6e5	1.5e5	1.5e5	1.7e4	1.4e4	3.0e4	3.1e4	1.9e4	2.9e4	2.0e4	1.5e4
F	1.5e5	1.6e5	1.4e5	1.5e5	2.6e4	1.5e4	1.8e4	1.6e4	2.3e4	1.7e4	1.6e4	2.2e4
G	1.7e5	1.6e5	1.4e5	1.6e5	1.6e4	1.5e4	1.5e4	1.3e4	1.7e4	1.4e4	1.4e4	1.3e4
H	1.6e5	1.5e5	1.4e5	1.4e5	1.3e4	1.4e4	1.2e4	1.5e4	1.4e4	1.4e4	1.4e4	1.4e4

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 : 3:35 PM
 10/13/2017

Mean Temperature : 23.5 °C

Standards

Sample	Conc	BackCalcConc	Wells	Value	MeanValue	SD	CV
01	21.600	0.013	A2	143806.000	150381.667	9484.418	6.3
		139.783	A3	161254.000			
		0.046	A4	146085.000			
02	12.960	0.593	B2	150765.000	155480.000	12484.167	8.0
		0.045	B3	146040.000			
		8565.913	B4	169635.000			
03	7.776	1.740	C2	152777.000	157464.333	8763.824	5.6
		1.175	C3	152041.000			
		3175.284	C4	167575.000			
04	4.666	948233019.566	D2	195712.000	169948.667	23103.334	13.6
		0.699	D3	151071.000			
		345.920	D4	163063.000			
05	2.799	6.788	E2	155359.000	151848.333	3707.623	2.4
		0.130	E3	147971.000			
		1.290	E4	152215.000			
06	1.680	148.339	F2	161372.000	149432.000	11123.889	7.4
		0.001	F3	139361.000			
		0.104	F4	147563.000			
07	1.008	108.181	G2	160746.000	153834.667	13110.065	8.5
		0.001	G3	138715.000			
		207.792	G4	162043.000			
08	0.605	1.225	H2	152119.000	146033.000	5467.244	3.7
		0.018	H3	144443.000			
		0.004	H4	141537.000			

Smallest standard value: 146033.000

Largest standard value: 169948.667

Unknowns

Sample	Wells	Value	R	Result	MeanResult	SD	CV
01	A5	142617.000	R	0.007	0.007	0.000	0.0
02	B5	164897.000		858.034	858.034	0.000	0.0
03	C5	162547.000		267.408	267.408	0.000	0.0
04	D5	145872.000	R	0.041	0.041	0.000	0.0

R - Outside standard range

Unk_Dilution

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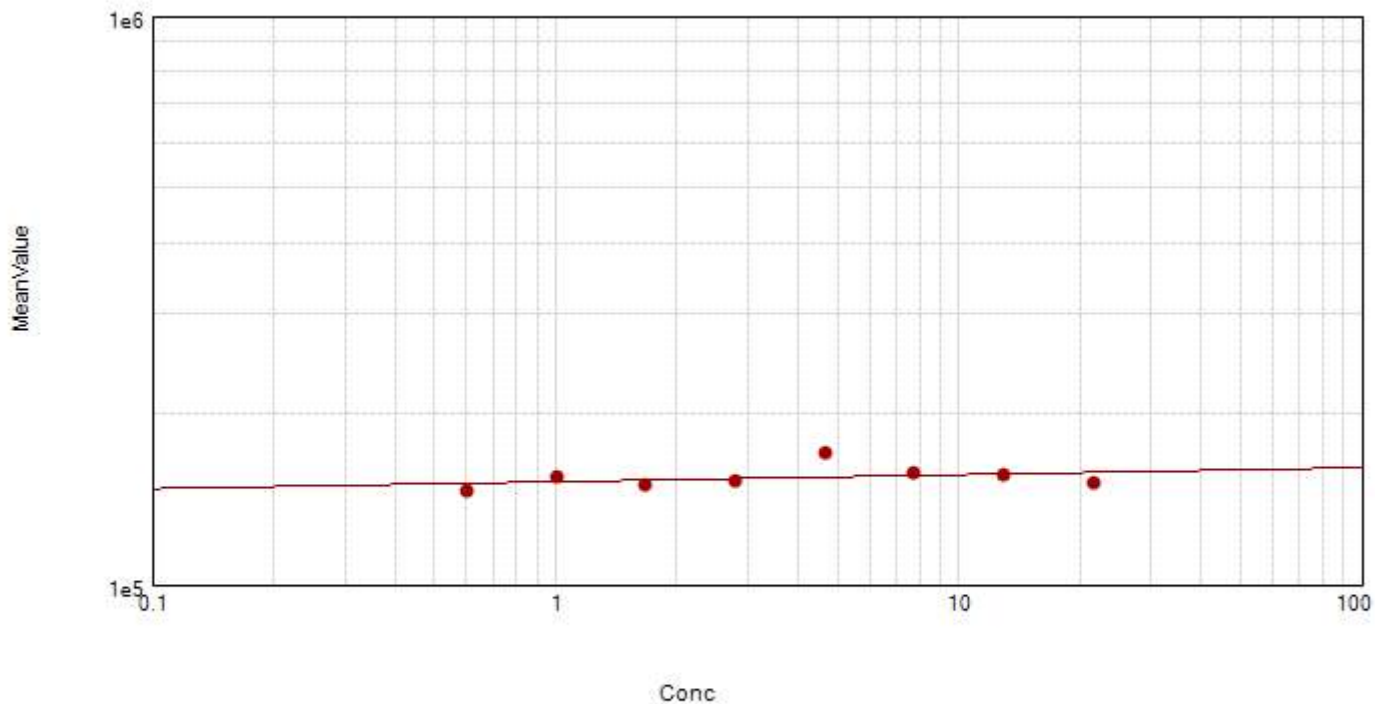
R - Outside standard range

Mean Adjusted Result:

Control

Sample	Wells	Sample#	Values	MeanValue
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StandardCurve



• Std (Standards: MeanVal... vs Conc)

Curve Fit Results ▼

Plate1

	1	2	3	4	5	6	7	8	9	10	11	12
A	1.1e4	1.5e5	1.5e5	1.4e5	-1.6e4	2.4e4	3.1e4	3.1e4	1.5e4	1.8e4	1.9e4	3.1e4
B	-1.3e4	1.5e5	1.4e5	1.6e5	317.63	1.5e4	2.1e4	2.8e4	2.8e4	1.8e4	1.5e4	2.1e4
C	-1450	1.5e5	1.5e5	1.6e5	-616.4	2.1e4	2.6e4	1.6e4	1.6e4	2.2e4	1.8e4	1.5e4
D	-9292	1.9e5	1.5e5	1.6e5	-6952	1.7e4	2.7e4	1.4e4	1.7e4	2.1e4	1.5e4	1.8e4
E	-1588	1.6e5	1.5e5	1.5e5	1.7e4	1.4e4	3.0e4	4.1e4	1.8e4	2.9e4	2.0e4	1.5e4
F	951.63	1.6e5	1.4e5	1.5e5	2.7e4	1.6e4	1.8e4	1.6e4	2.4e4	1.8e4	1.6e4	2.2e4
G	9689.6	1.6e5	1.4e5	1.5e5	1.6e4	1.5e4	1.5e4	1.3e4	1.7e4	1.4e4	1.4e4	1.2e4
H	3623.6	1.5e5	1.4e5	1.4e5	1.3e4	1.4e4	1.2e4	1.5e4	1.4e4	1.5e4	1.4e4	1.3e4

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 : 3:43 PM
 10/13/2017

Mean Temperature : 24.5 °C

Reduction Settings

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

Standards

Sample	Conc	BackCalcConc	Wells	Value	MeanValue	SD	CV
01	21.600	0.118	A2	146303.000	145263.000	1643.723	1.1
			A3	146118.000			
			A4	143368.000			
02	12.960	16.993	B2	153607.000	153123.667	9528.199	6.2
			B3	143363.000			
			B4	162401.000			
03	7.776	7.554	C2	152391.000	155393.000	6874.554	4.4
			C3	150530.000			
			C4	163258.000			
04	4.666	16773126351...	D2	188182.000	165847.667	20086.467	12.1
			D3	149263.000			
			D4	160098.000			
05	2.799	110.496	E2	156452.000	150216.000	5400.775	3.6
			E3	147047.000			
			E4	147149.000			
06	1.680	537.837	F2	158898.000	147655.667	11015.948	7.5
			F3	136881.000			
			F4	147188.000			
07	1.008	286.681	G2	157921.000	150085.000	10351.698	6.9
			G3	138350.000			
			G4	153984.000			
08	0.605	3.896	H2	151405.000	143855.000	7066.040	4.9
			H3	142759.000			
			H4	137401.000			

Smallest standard value: 143855.000

Largest standard value: 165847.667

Unknowns

Sample	Wells	Value	R	Result	MeanResult	SD	CV
01	A5	-15936.375	R	Range?	Range?	Ra...	Ra...
02	B5	317.625	R	0.000	0.000	0....	0.0
03	C5	-616.375	R	Range?	Range?	Ra...	Ra...
04	D5	-6952.375	R	Range?	Range?	Ra...	Ra...

R - Outside standard range

Unk_Dilution

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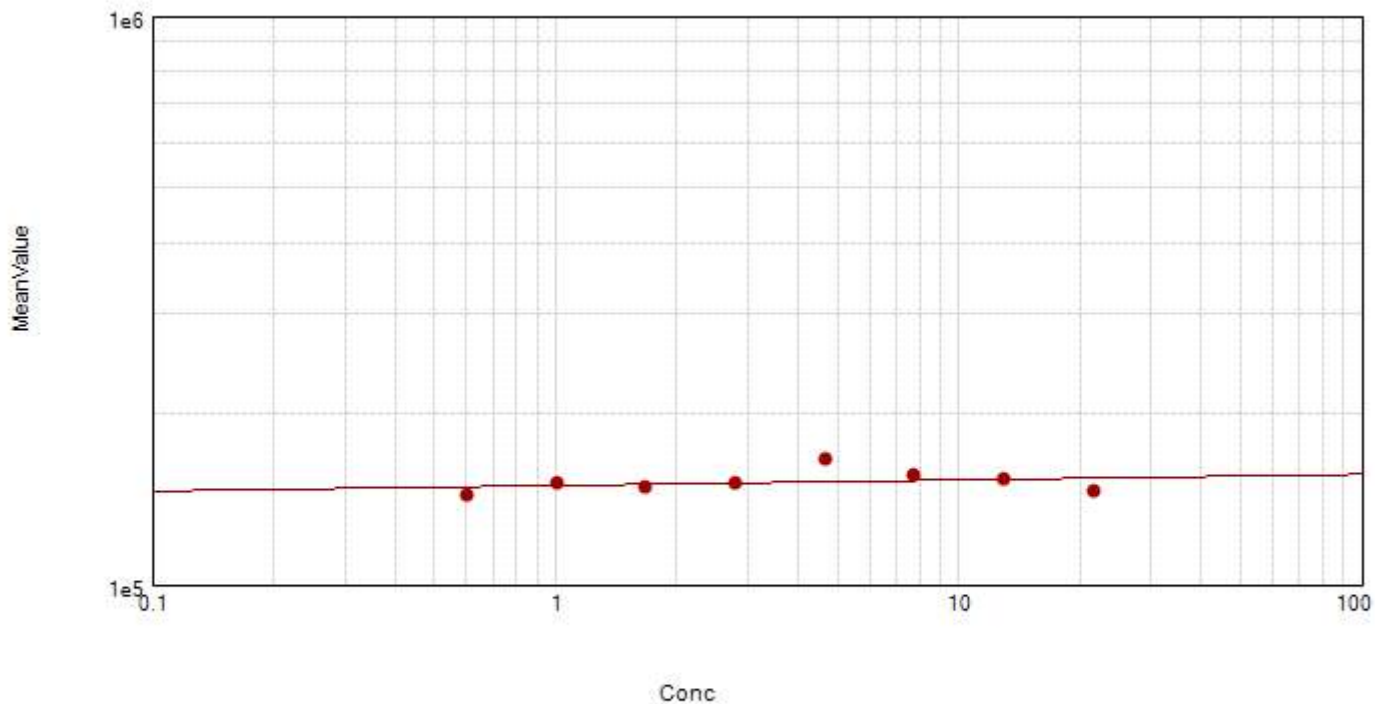
R - Outside standard range

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	3.9e4	1.7e5	2.0e5	1.8e5	9133.9	953.00	926.00	1020.0	910.00	1004.0	960.00	944.00
B	-9712	1.7e5	1.7e5	1.6e5	-1.2e4	914.00	1079.0	898.00	907.00	969.00	1011.0	1011.0
C	-1.0e4	1.6e5	1.6e5	1.4e5	-4.0e4	962.00	913.00	977.00	1081.0	943.00	998.00	1014.0
D	-1.6e4	2.1e5	1.5e5	1.5e5	-4.4e4	1055.0	949.00	1007.0	997.00	968.00	966.00	961.00
E	-3.0e4	1.7e5	1.4e5	1.3e5	1038.0	1006.0	1049.0	1026.0	996.00	1003.0	1055.0	1005.0
F	-4445	1.5e5	1.6e5	1.7e5	3289.0	1123.0	1112.0	1078.0	1036.0	998.00	1062.0	1108.0
G	3958.9	1.9e5	1.7e5	1.8e5	944.00	1054.0	1001.0	1204.0	1154.0	1044.0	1065.0	939.00
H	2.7e4	2.0e5	1.9e5	2.0e5	1002.0	1050.0	1096.0	1075.0	1066.0	1076.0	1035.0	1044.0

Reduction Settings

Group Blank Used (Raw Values)
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

Filter/Max F5
ROM vV1.1 b32 10.12.2010
Start Read : 3:50 PM
10/13/2017

Mean Temperature : 24.5 °C

Standards

Sample	Conc	BackCalcConc	Wells	Value	MeanValue	SD	CV
01	21.600	0.820	A2	173855.000	184250.333	11194.178	6.1
			A3	196101.000			
			A4	182795.000			
02	12.960	2.622	B2	170123.000	165875.000	5772.247	3.5
			B3	168199.000			
			B4	159303.000			
03	7.776	46.250	C2	161247.000	154580.667	14236.614	9.2
			C3	164261.000			
			C4	138234.000			
04	4.666	0.000	D2	214354.000	169251.000	39083.408	23.1
			D3	145357.000			
			D4	148042.000			
05	2.799	1.032	E2	173112.000	149082.333	21056.190	14.1
			E3	140276.000			
			E4	133859.000			
06	1.680	2534.356	F2	149633.000	158355.333	8082.563	5.1
			F3	159841.000			
			F4	165592.000			
07	1.008	0.002	G2	194099.000	181383.667	11526.518	6.4
			G3	171620.000			
			G4	178432.000			
08	0.605	0.000	H2	201526.000	195330.000	6246.088	3.2
			H3	189035.000			
			H4	195429.000			

Smallest standard value: 149082.333

Largest standard value: 195330.000

Unknowns

Sample	Wells	Value	R	Result	MeanResult	SD	CV
01	A5	9133.875	R	27839...	278391803...	0....	0.0
02	B5	-12082.125	R	Range?	Range?	Ra...	Ra...
03	C5	-40491.125	R	Range?	Range?	Ra...	Ra...
04	D5	-43828.125	R	Range?	Range?	Ra...	Ra...

R - Outside standard range

Unk_Dilution

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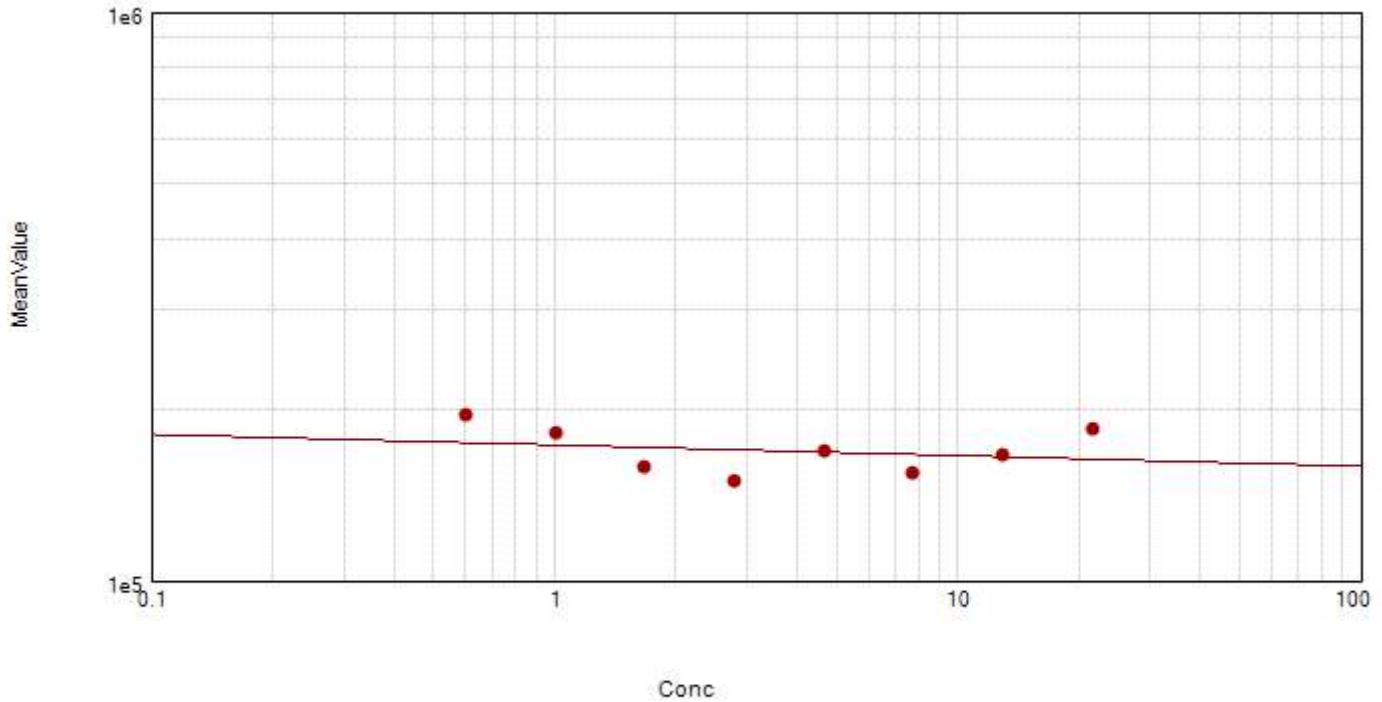
R - Outside standard range

Mean Adjusted Result:

Control

Sample	Wells	Sample#	Values	MeanValue
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StandardCurve



● Std (Standards: MeanVal... vs Conc)

Curve Fit Results ▼