

Intro

Quantitation of double-stranded DNA using Quant-iT PicoGreen Reagent

Invitrogen (Molecular Probes)

MATERIALS

- o Quant-iT PicoGreen dsDNA Assay Kit, including lambda DNA standard (Invitrogen cat. #P7589 or P11496)
- o Black 96-well plate (Greiner Bio-One, cat. # 655096)
- o Brown or amber (light-blocking) microcentrifuge tubes

METHODS*Set up the protocol:*

- o Select Wells to Read and Assay Plate Type by clicking on "Settings" and locating the options on the left side of the screen.
- o Click the Template button to open a window where you can assign wells of the microplate to pre-set template groups using the drop-down menu to select the appropriate template group. There are preconfigured template groups in the PicoGreen Fluorescence protocol including Standards, Unknowns, and Unknowns_NoDiln (for undiluted samples). Assigning wells to pre-set template groups populates group tables in the protocol with the corresponding data acquired when the microplate is read.

Prepare the assay

The method for this assay follows the instructions in the product information sheet for Quant-iT PicoGreen dsDNA Reagent and Kits from Molecular Probes, except that the assay volume is proportionately reduced from 2.0 mL to 200 μ L to fit a 96-well microplate format.

- o Prepare 1X TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.5) by diluting the concentrated buffer from the kit 20-fold with distilled DNase-free water, as required by Molecular Probes.
- o Prepare an aqueous working solution of Quant-iT PicoGreen reagent by making a 200-fold dilution of the concentrated DMSO solution in TE buffer (prepared above). Preparation of the solution in a plastic container, rather than glass, is recommended, as the reagent may adsorb to glass surfaces. Protect the solution from light by using amber or brown tubes, or by covering with foil. This solution should be used within a few hours of its preparation.
- o DNA standard curve: Prepare a 2 μ g/mL stock solution of dsDNA in TE. The lambda DNA standard provided with the kit can be diluted 50-fold in TE to make the 2 μ g/mL solution. Note: in some cases it may be preferable to make the standard curve using DNA similar to the type being assayed.
- o A high-range standard curve may be prepared from 1 ng/mL to 1 μ g/mL, or a low-range standard curve may be prepared from 25 μ g/mL to 25 ng/mL. For the high-range curve, follow the dilution scheme shown in the PicoGreen product insert; for the low-range curve, dilute the 2 μ g/mL solution 40-fold to yield a 50 ng/mL solution, and refer to the alternative dilution scheme in the product insert.
- o Pipet standards into a solid black 96-well microplate at 100 μ L per well, preferably in triplicate. Be sure to include a set of buffer blank wells containing TE only (no DNA).
- o Add 100 μ L of the aqueous working solution of Quant-iT PicoGreen reagent to each well. Mix well by trituration or plate shaker and incubate for 2 to 5 minutes at room temperature, protected from light.

Read the microplate

- " Make sure the purple plate adapter is in the microplate reader drawer. Place the microplate in the drawer.
- " Click the Read button in the SoftMax Pro software. The instrument will read the plate and the relative fluorescence units will be displayed in the Plate section of the protocol.

Analyze the data

- o After the microplate has been read, the relative fluorescence units (RFUs) will be displayed in the Plate section. The data will be analyzed in the Group Tables that were created when the template was set up.
- o Standards assigned in the Template (and thus displayed in the Standards group table) will be automatically plotted in the Standard Curve section of the protocol. A linear curve fit is applied by default, but a log-log fit may be used when plotting a standard curve over a wide dynamic range. Curve fits are chosen from the drop-down Curve Fit menu in the graph section's tool bar.

READER SUITABILITY:

All SpectraMax readers with fluorescence capability.

PROTOCOL REVISION HISTORY:

- v 1.1; Imported from SMP 5.4.2 April 2011 (CLO & ELM)
- v 1.2; Emission wavelength changed from 540 nm to 525 nm. (CLO)

Plate01

	1	2	3	4	5	6	7	8	9	10	11	12
A	3.3e7	3.9e7	3.8e7	2.7e6	2.7e6	3.0e6	5.5e5	5.7e5	5.3e5	6.5e4	6.6e4	6.5e4
B	1.6e7	1.7e7	1.8e7	1.4e6	1.7e6	1.8e6	1.8e6	1.9e6	1.6e6	6.8e4	6.7e4	6.4e4
C	8.6e6	9.0e6	8.9e6	2.8e6	3.0e6	3.0e6	3.3e6	3.3e6	3.0e6	6.7e4	6.7e4	1.2e5
D	4.4e6	4.4e6	4.4e6	2.3e6	2.8e6	2.8e6	2.8e6	2.9e6	2.6e6	6.9e4	6.7e4	6.7e4
E	2.0e6	2.1e6	2.2e6	8.5e5	1.0e6	1.1e6	1.1e6	1.1e6	1.1e6	6.9e4	6.7e4	6.7e4
F	9.9e5	1.1e6	1.1e6	2.0e6	2.5e6	2.4e6	2.7e6	2.7e6	2.4e6	6.6e4	6.6e4	6.9e4
G	6.4e4	6.4e4	6.7e4	5.1e5	6.5e5	6.6e5	5.9e5	6.1e5	5.6e5	6.8e4	6.6e4	6.5e4
H	6.3e4	6.5e4	6.6e4	7.7e5	7.3e5	7.7e5	6.8e5	7.0e5	6.4e5	6.5e4	6.4e4	6.4e4

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 : 2:20 PM
 3/17/2014

Mean Temperature : 26.5 °C

Plate02

	1	2	3	4	5	6	7	8	9	10	11	12
A	3.6e6	6.3e6	7.3e6	1.2e7	3.0e6	1.3e6	3.4e6	4.1e6	1.3e6	1.8e6	7.6e5	7.2e4
B	1.6e6	2.9e6	4.6e6	3.9e6	1.9e6	2.0e6	1.5e6	1.9e6	2.9e6	5.0e6	1.5e6	7.2e4
C	6.5e6	1.0e7	2.3e6	9.5e6	7.9e4	1.6e6	2.2e6	2.7e6	6.6e5	2.0e6	2.3e6	7.2e4
D	1.6e6	5.7e6	2.8e6	2.1e6	9.7e5	1.5e6	7.7e4	9.5e5	4.1e6	2.4e6	7.0e5	7.2e4
E	1.6e6	1.4e6	2.5e6	1.4e6	1.6e6	2.5e6	1.8e6	4.6e6	4.4e6	1.2e6	6.5e6	7.2e4
F	7.3e6	6.9e6	3.4e6	2.1e6	1.2e6	5.9e5	4.4e5	6.4e5	4.7e6	2.3e6	1.4e6	7.8e4
G	9.2e6	1.8e6	1.8e6	7.9e6	7.3e5	2.7e6	1.6e6	8.7e5	3.9e5	2.1e6	4.6e6	1.9e5
H	6.8e6	6.5e5	8.6e6	1.5e6	7.5e4	1.1e6	4.3e6	4.3e5	1.7e6	6.8e5	1.3e6	6.9e4

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 : 2:24 PM
 3/17/2014

Mean Temperature : 26.5 °C

Plate03

	1	2	3	4	5	6	7	8	9	10	11	12
A	3.1e6	6.0e6	6.3e6	9.4e6	2.5e6	1.2e6	3.0e6	3.5e6	1.2e6	1.5e6	6.8e5	6.8e4
B	1.4e6	2.5e6	4.0e6	3.5e6	1.7e6	1.7e6	1.4e6	1.7e6	2.4e6	4.3e6	1.3e6	6.6e4
C	5.9e6	8.7e6	1.9e6	8.1e6	7.7e4	1.4e6	1.9e6	2.3e6	5.8e5	1.7e6	1.9e6	6.7e4
D	1.4e6	5.0e6	2.4e6	1.9e6	8.0e5	1.3e6	7.5e4	8.2e5	3.5e6	2.1e6	6.2e5	6.7e4
E	1.4e6	1.2e6	2.2e6	1.2e6	1.4e6	2.3e6	1.6e6	4.0e6	3.8e6	1.0e6	5.5e6	6.7e4
F	6.0e6	5.8e6	3.1e6	1.8e6	1.1e6	5.9e5	3.8e5	5.8e5	4.0e6	1.9e6	1.2e6	6.8e4
G	7.3e6	1.4e6	1.6e6	6.9e6	7.1e5	2.6e6	1.5e6	8.0e5	3.5e5	1.8e6	3.7e6	6.6e4
H	5.7e6	5.3e5	6.9e6	1.5e6	7.4e4	1.1e6	3.9e6	4.1e5	1.5e6	5.7e5	1.0e6	6.5e4

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 : 2:27 PM
 3/17/2014

Mean Temperature : 27 °C

Plate04

	1	2	3	4	5	6	7	8	9	10	11	12
A	3.8e6	6.6e6	7.4e6	1.2e7	2.8e6	1.3e6	3.2e6	3.8e6	1.3e6	1.8e6	7.1e5	3.2e7
B	1.7e6	3.0e6	4.5e6	3.9e6	1.9e6	1.8e6	1.4e6	1.7e6	2.8e6	4.7e6	1.4e6	1.7e7
C	6.9e6	1.1e7	2.3e6	9.4e6	7.9e4	1.5e6	2.1e6	2.6e6	6.0e5	1.9e6	2.1e6	1.1e7
D	1.7e6	5.7e6	2.5e6	2.0e6	9.0e5	1.4e6	7.7e4	9.1e5	4.0e6	2.3e6	6.5e5	4.6e6
E	1.5e6	1.4e6	2.4e6	1.3e6	1.5e6	2.4e6	1.7e6	4.5e6	4.1e6	1.1e6	6.2e6	2.2e6
F	7.4e6	6.8e6	3.4e6	2.0e6	1.2e6	5.6e5	4.1e5	6.0e5	4.4e6	2.2e6	1.3e6	1.2e6
G	9.3e6	1.7e6	1.7e6	7.1e6	7.0e5	2.6e6	1.5e6	8.3e5	3.9e5	2.1e6	4.5e6	7.1e4
H	6.7e6	6.3e5	8.1e6	1.5e6	7.5e4	1.2e6	4.1e6	4.0e5	1.6e6	6.7e5	1.2e6	7.1e4

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 : 2:30 PM
 3/17/2014

Mean Temperature : 27 °C

Plate05

	1	2	3	4	5	6	7	8	9	10	11	12
A	3.4e6	6.3e6	7.0e6	1.2e7	2.8e6	1.2e6	3.1e6	3.7e6	9.6e5	1.8e6	7.4e5	3.4e7
B	1.5e6	2.9e6	4.2e6	3.7e6	2.0e6	2.0e6	1.4e6	1.7e6	2.6e6	4.9e6	1.4e6	1.8e7
C	7.2e6	9.8e6	2.1e6	9.0e6	7.9e4	1.5e6	1.9e6	2.1e6	5.4e5	1.9e6	2.0e6	9.5e6
D	1.6e6	4.6e6	2.7e6	1.8e6	8.0e5	1.3e6	7.8e4	8.1e5	4.0e6	2.1e6	5.8e5	4.8e6
E	1.6e6	1.4e6	2.1e6	1.2e6	1.3e6	2.3e6	1.6e6	4.2e6	4.4e6	1.2e6	6.6e6	2.5e6
F	8.1e6	6.7e6	3.3e6	1.8e6	1.1e6	5.1e5	4.3e5	5.3e5	4.4e6	2.2e6	1.5e6	1.2e6
G	8.7e6	1.7e6	1.8e6	7.1e6	5.7e5	2.6e6	1.4e6	8.5e5	3.5e5	1.8e6	4.4e6	7.2e4
H	6.6e6	6.7e5	7.5e6	1.5e6	7.6e4	1.1e6	4.3e6	4.2e5	1.6e6	5.6e5	1.2e6	7.2e4

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 : 2:32 PM
 3/17/2014

Mean Temperature : 27 °C

Plate06

	1	2	3	4	5	6	7	8	9	10	11	12
A	3.3e6	6.1e6	6.5e6	1.1e7	2.6e6	1.1e6	3.1e6	3.5e6	1.0e6	1.6e6	6.5e5	3.4e7
B	1.5e6	2.7e6	4.0e6	3.7e6	2.1e6	1.6e6	1.4e6	1.6e6	2.7e6	4.1e6	1.3e6	1.8e7
C	6.4e6	9.2e6	2.1e6	8.0e6	7.7e4	1.4e6	1.8e6	1.9e6	5.0e5	1.8e6	1.9e6	9.2e6
D	1.5e6	4.4e6	2.3e6	1.8e6	7.3e5	1.3e6	7.5e4	8.0e5	3.9e6	2.1e6	1.2e6	4.6e6
E	1.4e6	1.2e6	2.1e6	1.1e6	1.2e6	2.2e6	1.7e6	4.0e6	3.9e6	1.1e6	5.5e6	2.4e6
F	7.4e6	6.5e6	2.9e6	1.6e6	1.1e6	5.0e5	4.0e5	5.2e5	4.0e6	2.0e6	1.3e6	1.2e6
G	7.9e6	1.5e6	1.7e6	6.8e6	5.8e5	2.5e6	1.4e6	8.2e5	3.2e5	1.8e6	3.6e6	7.0e4
H	6.1e6	6.3e5	6.7e6	1.4e6	7.4e4	1.1e6	4.0e6	4.3e5	1.6e6	5.8e5	1.1e6	6.9e4

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 : 2:35 PM
 3/17/2014

Mean Temperature : 27 °C

Plate07

	1	2	3	4	5	6	7	8	9	10	11	12
A	3.5e6	6.6e6	7.1e6	1.2e7	2.7e6	1.1e6	3.2e6	3.8e6	1.1e6	1.6e6	6.9e5	3.4e7
B	1.6e6	2.9e6	4.3e6	3.8e6	2.2e6	1.6e6	1.4e6	1.7e6	2.7e6	4.4e6	1.4e6	1.8e7
C	6.7e6	9.9e6	2.2e6	8.8e6	7.7e4	1.5e6	1.9e6	1.9e6	5.2e5	1.8e6	1.9e6	1.0e7
D	1.5e6	4.5e6	2.5e6	1.9e6	7.8e5	1.3e6	7.5e4	8.4e5	3.9e6	2.1e6	5.8e5	4.6e6
E	1.5e6	1.3e6	2.2e6	1.2e6	1.3e6	2.2e6	1.6e6	4.2e6	4.0e6	1.1e6	6.1e6	2.3e6
F	7.4e6	6.5e6	3.1e6	1.6e6	1.1e6	5.0e5	4.1e5	5.1e5	4.3e6	2.0e6	1.4e6	1.3e6
G	8.4e6	1.6e6	1.7e6	7.1e6	6.0e5	2.5e6	1.4e6	8.2e5	3.6e5	1.9e6	4.0e6	7.1e4
H	6.3e6	6.2e5	6.7e6	1.4e6	7.5e4	1.1e6	4.0e6	4.0e5	1.6e6	5.9e5	1.1e6	7.0e4

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 : 2:38 PM
 3/17/2014

Mean Temperature : 27.5 °C

Standards

Sample	Concentration	BackCalcConc	Wells	RFU_Values	MeanRFUValue	SD	CV
01	100.000	170.999	A1	33448858.0...	36866650.000	29...	8.1
		199.885	A2	38808812.0...			
		197.371	A3	38342280.0...			
02	50.000	78.895	B1	16358536.0...	17064083.333	64...	3.8
		83.463	B2	17206134.0...			
		85.734	B3	17627580.0...			
03	25.000	37.338	C1	8647505.000	8863854.333	19...	2.2
		39.416	C2	9033007.000			
		38.759	C3	8911051.000			
04	12.500	14.287	D1	4370224.000	4399097.000	31...	0.7
		14.413	D2	4393706.000			
		14.627	D3	4433361.000			
05	6.250	1.575	E1	2011537.000	2101767.000	10...	5.2
		1.892	E2	2070325.000			
		2.717	E3	2223439.000			
06	3.125	-3.924	F1	991104.000	1065234.667	64...	6.0
		-3.299	F2	1107124.000			
		-3.351	F3	1097476.000			
07	0.000	-8.919	G1	64193.000	65239.000	15...	2.4
		-8.918	G2	64478.000			
		-8.904	G3	67046.000			
08	100.000	-8.927	H1	62813.000	64703.000	17...	2.7
		-8.914	H2	65134.000			
		-8.909	H3	66162.000			
09	0.000	-8.913	A10	65479.000	68842.708	11...	16.8
		-8.912	A11	65640.000			
		-8.915	A12	65056.000			
		-8.897	B10	68372.000			
		-8.905	B11	66873.000			
		-8.919	B12	64268.000			
		-8.904	C10	67087.000			
		-8.904	C11	66973.000			
		-8.604	C12	122816.000			
		-8.892	D10	69238.000			
		-8.905	D11	66814.000			
		-8.904	D12	67031.000			
-8.893	E10	69149.000					
-8.905	E11	66957.000					
-8.904	E12	67122.000					
-8.910	F10	66018.000					
-8.909	F11	66092.000					
-8.892	F12	69355.000					
-8.902	G10	67514.000					
-8.912	G11	65531.000					
-8.914	G12	65196.000					
-8.914	H10	65119.000					
-8.920	H11	64134.000					
-8.918	H12	64391.000					

Unknowns

Sample	Wells	RFU_Values	Concentration	Mean_Conc	SD	CV	Dilution	AdjConc
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Unknowns_NoDiln

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
01	A1	3554228.000	9.889	9.889	0.000	0.00
02	B1	1550118.000	-0.911	-0.911	0.000	0.00
03	C1	6512137.000	25.830	25.830	0.000	0.00
04	D1	1587653.000	-0.709	-0.709	0.000	0.00
05	E1	1571668.000	-0.795	-0.795	0.000	0.00
06	F1	7310432.000	30.132	30.132	0.000	0.00
07	G1	9208370.000	40.361	40.361	0.000	0.00
08	H1	6779996.000	27.274	27.274	0.000	0.00
09	A2	6314054.000	24.763	24.763	0.000	0.00
097	A1	3078374.000	7.325	7.325	0.000	0.00
098	B1	1399458.000	-1.723	-1.723	0.000	0.00
099	C1	5899655.000	22.529	22.529	0.000	0.00
10	B2	2901264.000	6.370	6.370	0.000	0.00
100	D1	1444820.000	-1.479	-1.479	0.000	0.00
101	E1	1431579.000	-1.550	-1.550	0.000	0.00
102	F1	5998115.000	23.060	23.060	0.000	0.00
103	G1	7298061.000	30.066	30.066	0.000	0.00
104	H1	5723340.000	21.579	21.579	0.000	0.00
105	A2	6009992.000	23.124	23.124	0.000	0.00
106	B2	2490836.000	4.158	4.158	0.000	0.00
107	C2	8658503.000	37.398	37.398	0.000	0.00
108	D2	5025297.000	17.817	17.817	0.000	0.00
109	E2	1184866.000	-2.880	-2.880	0.000	0.00
11	C2	10447351.000	47.038	47.038	0.000	0.00
110	F2	5795752.000	21.969	21.969	0.000	0.00
111	G2	1398738.000	-1.727	-1.727	0.000	0.00
112	H2	528585.000	-6.417	-6.417	0.000	0.00
113	A3	6319127.000	24.790	24.790	0.000	0.00
114	B3	4008962.000	12.340	12.340	0.000	0.00
115	C3	1937402.000	1.176	1.176	0.000	0.00
116	D3	2391934.000	3.625	3.625	0.000	0.00
117	E3	2218454.000	2.690	2.690	0.000	0.00
118	F3	3053427.000	7.190	7.190	0.000	0.00
119	G3	1613835.000	-0.568	-0.568	0.000	0.00
12	D2	5746318.000	21.703	21.703	0.000	0.00
120	H3	6917400.000	28.014	28.014	0.000	0.00
121	A4	9404010.000	41.415	41.415	0.000	0.00
122	B4	3502573.000	9.611	9.611	0.000	0.00
123	C4	8118685.000	34.488	34.488	0.000	0.00
124	D4	1934053.000	1.158	1.158	0.000	0.00
125	E4	1224272.000	-2.667	-2.667	0.000	0.00
126	F4	1831291.000	0.604	0.604	0.000	0.00
127	G4	6937371.000	28.122	28.122	0.000	0.00
128	H4	1450050.000	-1.451	-1.451	0.000	0.00
129	A5	2506091.000	4.241	4.241	0.000	0.00
13	E2	1384338.000	-1.805	-1.805	0.000	0.00
130	B5	1708154.000	-0.060	-0.060	0.000	0.00
131	C5	77221.000	-8.849	-8.849	0.000	0.00
132	D5	798343.000	-4.963	-4.963	0.000	0.00
133	E5	1352012.000	-1.979	-1.979	0.000	0.00
134	F5	1136712.000	-3.139	-3.139	0.000	0.00
135	G5	714592.000	-5.414	-5.414	0.000	0.00
136	H5	74227.000	-8.865	-8.865	0.000	0.00
137	A6	1178626.000	-2.913	-2.913	0.000	0.00
138	B6	1659333.000	-0.323	-0.323	0.000	0.00
139	C6	1445548.000	-1.475	-1.475	0.000	0.00
14	F2	6903892.000	27.941	27.941	0.000	0.00

Unknowns_NoDiln (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
140	D6	1294962.000	-2.287	-2.287	0.000	0.0
141	E6	2337784.000	3.334	3.334	0.000	0.0
142	F6	585773.000	-6.109	-6.109	0.000	0.0
143	G6	2640582.000	4.965	4.965	0.000	0.0
144	H6	1136594.000	-3.140	-3.140	0.000	0.0
145	A7	3040236.000	7.119	7.119	0.000	0.0
146	B7	1405063.000	-1.693	-1.693	0.000	0.0
147	C7	1863891.000	0.780	0.780	0.000	0.0
148	D7	75222.000	-8.860	-8.860	0.000	0.0
149	E7	1575254.000	-0.776	-0.776	0.000	0.0
15	G2	1759466.000	0.217	0.217	0.000	0.0
150	F7	379911.000	-7.218	-7.218	0.000	0.0
151	G7	1463127.000	-1.380	-1.380	0.000	0.0
152	H7	3871109.000	11.597	11.597	0.000	0.0
153	A8	3541074.000	9.818	9.818	0.000	0.0
154	B8	1718207.000	-0.006	-0.006	0.000	0.0
155	C8	2334449.000	3.316	3.316	0.000	0.0
156	D8	817260.000	-4.861	-4.861	0.000	0.0
157	E8	3974197.000	12.153	12.153	0.000	0.0
158	F8	581799.000	-6.130	-6.130	0.000	0.0
159	G8	799391.000	-4.957	-4.957	0.000	0.0
16	H2	645041.000	-5.789	-5.789	0.000	0.0
160	H8	405495.000	-7.080	-7.080	0.000	0.0
161	A9	1154234.000	-3.045	-3.045	0.000	0.0
162	B9	2404566.000	3.693	3.693	0.000	0.0
163	C9	577629.000	-6.152	-6.152	0.000	0.0
164	D9	3486331.000	9.523	9.523	0.000	0.0
165	E9	3819818.000	11.321	11.321	0.000	0.0
166	F9	4045998.000	12.540	12.540	0.000	0.0
167	G9	350397.000	-7.377	-7.377	0.000	0.0
168	H9	1540135.000	-0.965	-0.965	0.000	0.0
169	A10	1526532.000	-1.039	-1.039	0.000	0.0
17	A3	7313784.000	30.151	30.151	0.000	0.0
170	B10	4301127.000	13.915	13.915	0.000	0.0
171	C10	1700361.000	-0.102	-0.102	0.000	0.0
172	D10	2121458.000	2.168	2.168	0.000	0.0
173	E10	1044789.000	-3.635	-3.635	0.000	0.0
174	F10	1874273.000	0.836	0.836	0.000	0.0
175	G10	1806569.000	0.471	0.471	0.000	0.0
176	H10	573093.000	-6.177	-6.177	0.000	0.0
177	A11	677303.000	-5.615	-5.615	0.000	0.0
178	B11	1291321.000	-2.306	-2.306	0.000	0.0
179	C11	1948710.000	1.237	1.237	0.000	0.0
18	B3	4621651.000	15.642	15.642	0.000	0.0
180	D11	618204.000	-5.934	-5.934	0.000	0.0
181	E11	5508100.000	20.419	20.419	0.000	0.0
182	F11	1167153.000	-2.975	-2.975	0.000	0.0
183	G11	3707518.000	10.715	10.715	0.000	0.0
184	H11	1000524.000	-3.873	-3.873	0.000	0.0
185	A12	67884.000	-8.900	-8.900	0.000	0.0
186	B12	66184.000	-8.909	-8.909	0.000	0.0
187	C12	66843.000	-8.905	-8.905	0.000	0.0
188	D12	67234.000	-8.903	-8.903	0.000	0.0
189	E12	67343.000	-8.902	-8.902	0.000	0.0
19	C3	2338756.000	3.339	3.339	0.000	0.0
190	F12	67655.000	-8.901	-8.901	0.000	0.0
191	G12	66077.000	-8.909	-8.909	0.000	0.0

Unknowns_NoDiln (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
192	H12	64865.000	-8.916	-8.916	0.000	0.00
193	A1	3808310.000	11.259	11.259	0.000	0.00
194	B1	1679993.000	-0.211	-0.211	0.000	0.00
195	C1	6873091.000	27.776	27.776	0.000	0.00
196	D1	1696818.000	-0.121	-0.121	0.000	0.00
197	E1	1542873.000	-0.950	-0.950	0.000	0.00
198	F1	7412208.000	30.681	30.681	0.000	0.00
199	G1	9340930.000	41.075	41.075	0.000	0.00
20	D3	2838887.000	6.034	6.034	0.000	0.00
200	H1	6659352.000	26.624	26.624	0.000	0.00
201	A2	6561762.000	26.098	26.098	0.000	0.00
202	B2	3022532.000	7.024	7.024	0.000	0.00
203	C2	10549812.000	47.590	47.590	0.000	0.00
204	D2	5702673.000	21.468	21.468	0.000	0.00
205	E2	1351540.000	-1.982	-1.982	0.000	0.00
206	F2	6786715.000	27.310	27.310	0.000	0.00
207	G2	1692387.000	-0.145	-0.145	0.000	0.00
208	H2	627930.000	-5.881	-5.881	0.000	0.00
209	A3	7409903.000	30.669	30.669	0.000	0.00
21	E3	2534414.000	4.393	4.393	0.000	0.00
210	B3	4452551.000	14.731	14.731	0.000	0.00
211	C3	2334567.000	3.316	3.316	0.000	0.00
212	D3	2459679.000	3.990	3.990	0.000	0.00
213	E3	2357961.000	3.442	3.442	0.000	0.00
214	F3	3385445.000	8.980	8.980	0.000	0.00
215	G3	1650610.000	-0.370	-0.370	0.000	0.00
216	H3	8074077.000	34.248	34.248	0.000	0.00
217	A4	11611440.000	53.312	53.312	0.000	0.00
218	B4	3855596.000	11.513	11.513	0.000	0.00
219	C4	9442131.000	41.621	41.621	0.000	0.00
22	F3	3387535.000	8.991	8.991	0.000	0.00
220	D4	2026692.000	1.657	1.657	0.000	0.00
221	E4	1274150.000	-2.399	-2.399	0.000	0.00
222	F4	2015970.000	1.599	1.599	0.000	0.00
223	G4	7125144.000	29.134	29.134	0.000	0.00
224	H4	1489085.000	-1.240	-1.240	0.000	0.00
225	A5	2790782.000	5.775	5.775	0.000	0.00
226	B5	1867627.000	0.800	0.800	0.000	0.00
227	C5	78657.000	-8.841	-8.841	0.000	0.00
228	D5	900968.000	-4.410	-4.410	0.000	0.00
229	E5	1490646.000	-1.232	-1.232	0.000	0.00
23	G3	1750851.000	0.170	0.170	0.000	0.00
230	F5	1150903.000	-3.063	-3.063	0.000	0.00
231	G5	702499.000	-5.479	-5.479	0.000	0.00
232	H5	75079.000	-8.861	-8.861	0.000	0.00
233	A6	1283548.000	-2.348	-2.348	0.000	0.00
234	B6	1822647.000	0.557	0.557	0.000	0.00
235	C6	1546744.000	-0.930	-0.930	0.000	0.00
236	D6	1442325.000	-1.492	-1.492	0.000	0.00
237	E6	2396531.000	3.650	3.650	0.000	0.00
238	F6	560448.000	-6.245	-6.245	0.000	0.00
239	G6	2640611.000	4.966	4.966	0.000	0.00
24	H3	8618981.000	37.185	37.185	0.000	0.00
240	H6	1174935.000	-2.933	-2.933	0.000	0.00
241	A7	3234324.000	8.165	8.165	0.000	0.00
242	B7	1427727.000	-1.571	-1.571	0.000	0.00
243	C7	2098006.000	2.041	2.041	0.000	0.00

Unknowns_NoDiln (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
244	D7	76704.000	-8.852	-8.852	0.000	0.0
245	E7	1747044.000	0.150	0.150	0.000	0.0
246	F7	406654.000	-7.074	-7.074	0.000	0.0
247	G7	1532652.000	-1.006	-1.006	0.000	0.0
248	H7	4064245.000	12.638	12.638	0.000	0.0
249	A8	3763024.000	11.015	11.015	0.000	0.0
25	A4	11915491.0...	54.950	54.950	0.000	0.0
250	B8	1738792.000	0.105	0.105	0.000	0.0
251	C8	2566920.000	4.568	4.568	0.000	0.0
252	D8	906494.000	-4.380	-4.380	0.000	0.0
253	E8	4458872.000	14.765	14.765	0.000	0.0
254	F8	604444.000	-6.008	-6.008	0.000	0.0
255	G8	830171.000	-4.791	-4.791	0.000	0.0
256	H8	402299.000	-7.097	-7.097	0.000	0.0
257	A9	1266909.000	-2.438	-2.438	0.000	0.0
258	B9	2830222.000	5.987	5.987	0.000	0.0
259	C9	602274.000	-6.020	-6.020	0.000	0.0
26	B4	3890251.000	11.700	11.700	0.000	0.0
260	D9	3990990.000	12.243	12.243	0.000	0.0
261	E9	4139587.000	13.044	13.044	0.000	0.0
262	F9	4382925.000	14.355	14.355	0.000	0.0
263	G9	391841.000	-7.154	-7.154	0.000	0.0
264	H9	1625724.000	-0.504	-0.504	0.000	0.0
265	A10	1762401.000	0.233	0.233	0.000	0.0
266	B10	4705262.000	16.093	16.093	0.000	0.0
267	C10	1883945.000	0.888	0.888	0.000	0.0
268	D10	2269862.000	2.967	2.967	0.000	0.0
269	E10	1116850.000	-3.246	-3.246	0.000	0.0
27	C4	9535605.000	42.124	42.124	0.000	0.0
270	F10	2158209.000	2.366	2.366	0.000	0.0
271	G10	2064948.000	1.863	1.863	0.000	0.0
272	H10	667595.000	-5.668	-5.668	0.000	0.0
273	A11	710381.000	-5.437	-5.437	0.000	0.0
274	B11	1444392.000	-1.481	-1.481	0.000	0.0
275	C11	2128327.000	2.205	2.205	0.000	0.0
276	D11	652245.000	-5.750	-5.750	0.000	0.0
277	E11	6200665.000	24.152	24.152	0.000	0.0
278	F11	1328122.000	-2.108	-2.108	0.000	0.0
279	G11	4472370.000	14.837	14.837	0.000	0.0
28	D4	2123484.000	2.179	2.179	0.000	0.0
280	H11	1178097.000	-2.916	-2.916	0.000	0.0
281	A12	32387288.0...	165.278	165.278	0.000	0.0
282	B12	16659357.0...	80.516	80.516	0.000	0.0
283	C12	11132437.0...	50.730	50.730	0.000	0.0
284	D12	4641974.000	15.751	15.751	0.000	0.0
285	E12	2240373.000	2.809	2.809	0.000	0.0
286	F12	1181087.000	-2.900	-2.900	0.000	0.0
287	G12	71040.000	-8.883	-8.883	0.000	0.0
288	H12	70689.000	-8.884	-8.884	0.000	0.0
289	A1	3417404.000	9.152	9.152	0.000	0.0
29	E4	1352857.000	-1.974	-1.974	0.000	0.0
290	B1	1546272.000	-0.932	-0.932	0.000	0.0
291	C1	7243901.000	29.774	29.774	0.000	0.0
292	D1	1583114.000	-0.734	-0.734	0.000	0.0
293	E1	1557656.000	-0.871	-0.871	0.000	0.0
294	F1	8144321.000	34.626	34.626	0.000	0.0
295	G1	8737072.000	37.821	37.821	0.000	0.0

Unknowns_NoDiln (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
296	H1	6587768.000	26.238	26.238	0.000	0.0
297	A2	6307068.000	24.725	24.725	0.000	0.0
298	B2	2858406.000	6.139	6.139	0.000	0.0
299	C2	9764864.000	43.360	43.360	0.000	0.0
30	F4	2135413.000	2.243	2.243	0.000	0.0
300	D2	4634116.000	15.709	15.709	0.000	0.0
301	E2	1370980.000	-1.877	-1.877	0.000	0.0
302	F2	6749411.000	27.109	27.109	0.000	0.0
303	G2	1662902.000	-0.304	-0.304	0.000	0.0
304	H2	665964.000	-5.676	-5.676	0.000	0.0
305	A3	7024703.000	28.593	28.593	0.000	0.0
306	B3	4249264.000	13.635	13.635	0.000	0.0
307	C3	2098867.000	2.046	2.046	0.000	0.0
308	D3	2652435.000	5.029	5.029	0.000	0.0
309	E3	2138819.000	2.261	2.261	0.000	0.0
31	G4	7902314.000	33.322	33.322	0.000	0.0
310	F3	3269137.000	8.353	8.353	0.000	0.0
311	G3	1805938.000	0.467	0.467	0.000	0.0
312	H3	7464640.000	30.964	30.964	0.000	0.0
313	A4	12317143.000	57.115	57.115	0.000	0.0
314	B4	3711801.000	10.738	10.738	0.000	0.0
315	C4	9010063.000	39.292	39.292	0.000	0.0
316	D4	1838813.000	0.644	0.644	0.000	0.0
317	E4	1194625.000	-2.827	-2.827	0.000	0.0
318	F4	1784316.000	0.351	0.351	0.000	0.0
319	G4	7081948.000	28.901	28.901	0.000	0.0
32	H4	1467442.000	-1.357	-1.357	0.000	0.0
320	H4	1472290.000	-1.331	-1.331	0.000	0.0
321	A5	2793869.000	5.792	5.792	0.000	0.0
322	B5	2029391.000	1.672	1.672	0.000	0.0
323	C5	79158.000	-8.839	-8.839	0.000	0.0
324	D5	802161.000	-4.942	-4.942	0.000	0.0
325	E5	1291532.000	-2.305	-2.305	0.000	0.0
326	F5	1100088.000	-3.337	-3.337	0.000	0.0
327	G5	570123.000	-6.193	-6.193	0.000	0.0
328	H5	76306.000	-8.854	-8.854	0.000	0.0
329	A6	1216527.000	-2.709	-2.709	0.000	0.0
33	A5	2976749.000	6.777	6.777	0.000	0.0
330	B6	2049344.000	1.779	1.779	0.000	0.0
331	C6	1460454.000	-1.395	-1.395	0.000	0.0
332	D6	1340631.000	-2.040	-2.040	0.000	0.0
333	E6	2328752.000	3.285	3.285	0.000	0.0
334	F6	513468.000	-6.498	-6.498	0.000	0.0
335	G6	2649147.000	5.012	5.012	0.000	0.0
336	H6	1102425.000	-3.324	-3.324	0.000	0.0
337	A7	3122101.000	7.560	7.560	0.000	0.0
338	B7	1381289.000	-1.821	-1.821	0.000	0.0
339	C7	1890740.000	0.924	0.924	0.000	0.0
34	B5	1934063.000	1.158	1.158	0.000	0.0
340	D7	77787.000	-8.846	-8.846	0.000	0.0
341	E7	1632831.000	-0.466	-0.466	0.000	0.0
342	F7	431107.000	-6.942	-6.942	0.000	0.0
343	G7	1369292.000	-1.886	-1.886	0.000	0.0
344	H7	4347627.000	14.165	14.165	0.000	0.0
345	A8	3681653.000	10.576	10.576	0.000	0.0
346	B8	1740338.000	0.114	0.114	0.000	0.0
347	C8	2075675.000	1.921	1.921	0.000	0.0

Unknowns_NoDiln (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
348	D8	814981.000	-4.873	-4.873	0.000	0.0
349	E8	4214950.000	13.450	13.450	0.000	0.0
35	C5	78990.000	-8.840	-8.840	0.000	0.0
350	F8	525785.000	-6.432	-6.432	0.000	0.0
351	G8	849218.000	-4.689	-4.689	0.000	0.0
352	H8	424794.000	-6.976	-6.976	0.000	0.0
353	A9	962831.000	-4.076	-4.076	0.000	0.0
354	B9	2614560.000	4.825	4.825	0.000	0.0
355	C9	536003.000	-6.377	-6.377	0.000	0.0
356	D9	3961261.000	12.083	12.083	0.000	0.0
357	E9	4399430.000	14.444	14.444	0.000	0.0
358	F9	4378151.000	14.330	14.330	0.000	0.0
359	G9	352274.000	-7.367	-7.367	0.000	0.0
36	D5	966725.000	-4.055	-4.055	0.000	0.0
360	H9	1597752.000	-0.655	-0.655	0.000	0.0
361	A10	1810730.000	0.493	0.493	0.000	0.0
362	B10	4891757.000	17.098	17.098	0.000	0.0
363	C10	1886300.000	0.900	0.900	0.000	0.0
364	D10	2148028.000	2.311	2.311	0.000	0.0
365	E10	1153216.000	-3.050	-3.050	0.000	0.0
366	F10	2207762.000	2.633	2.633	0.000	0.0
367	G10	1813451.000	0.508	0.508	0.000	0.0
368	H10	555013.000	-6.274	-6.274	0.000	0.0
369	A11	744987.000	-5.250	-5.250	0.000	0.0
37	E5	1569560.000	-0.807	-0.807	0.000	0.0
370	B11	1387551.000	-1.788	-1.788	0.000	0.0
371	C11	2045376.000	1.758	1.758	0.000	0.0
372	D11	579120.000	-6.144	-6.144	0.000	0.0
373	E11	6566846.000	26.125	26.125	0.000	0.0
374	F11	1481816.000	-1.279	-1.279	0.000	0.0
375	G11	4371767.000	14.295	14.295	0.000	0.0
376	H11	1164049.000	-2.992	-2.992	0.000	0.0
377	A12	33830684.000	173.057	173.057	0.000	0.0
378	B12	18183756.000	88.732	88.732	0.000	0.0
379	C12	9546355.000	42.182	42.182	0.000	0.0
38	F5	1203390.000	-2.780	-2.780	0.000	0.0
380	D12	4757585.000	16.374	16.374	0.000	0.0
381	E12	2481572.000	4.108	4.108	0.000	0.0
382	F12	1237400.000	-2.597	-2.597	0.000	0.0
383	G12	72067.000	-8.877	-8.877	0.000	0.0
384	H12	71828.000	-8.878	-8.878	0.000	0.0
385	A1	3281543.000	8.420	8.420	0.000	0.0
386	B1	1455491.000	-1.421	-1.421	0.000	0.0
387	C1	6411782.000	25.289	25.289	0.000	0.0
388	D1	1475541.000	-1.313	-1.313	0.000	0.0
389	E1	1423690.000	-1.593	-1.593	0.000	0.0
39	G5	731300.000	-5.324	-5.324	0.000	0.0
390	F1	7351493.000	30.354	30.354	0.000	0.0
391	G1	7934940.000	33.498	33.498	0.000	0.0
392	H1	6055274.000	23.368	23.368	0.000	0.0
393	A2	6068248.000	23.438	23.438	0.000	0.0
394	B2	2745873.000	5.533	5.533	0.000	0.0
395	C2	9183855.000	40.229	40.229	0.000	0.0
396	D2	4351531.000	14.186	14.186	0.000	0.0
397	E2	1247318.000	-2.543	-2.543	0.000	0.0
398	F2	6498747.000	25.758	25.758	0.000	0.0
399	G2	1547786.000	-0.924	-0.924	0.000	0.0

Unknowns_NoDiln (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
40	H5	75075.000	-8.861	-8.861	0.000	0.0
400	H2	625395.000	-5.895	-5.895	0.000	0.0
401	A3	6477227.000	25.642	25.642	0.000	0.0
402	B3	3971624.000	12.139	12.139	0.000	0.0
403	C3	2094304.000	2.021	2.021	0.000	0.0
404	D3	2329242.000	3.288	3.288	0.000	0.0
405	E3	2086400.000	1.979	1.979	0.000	0.0
406	F3	2919691.000	6.470	6.470	0.000	0.0
407	G3	1650270.000	-0.372	-0.372	0.000	0.0
408	H3	6693879.000	26.810	26.810	0.000	0.0
409	A4	11111554.000	50.618	50.618	0.000	0.0
41	A6	1314297.000	-2.182	-2.182	0.000	0.0
410	B4	3652486.000	10.419	10.419	0.000	0.0
411	C4	7962653.000	33.647	33.647	0.000	0.0
412	D4	1832976.000	0.613	0.613	0.000	0.0
413	E4	1120779.000	-3.225	-3.225	0.000	0.0
414	F4	1637924.000	-0.438	-0.438	0.000	0.0
415	G4	6848426.000	27.643	27.643	0.000	0.0
416	H4	1405896.000	-1.689	-1.689	0.000	0.0
417	A5	2630680.000	4.912	4.912	0.000	0.0
418	B5	2080377.000	1.946	1.946	0.000	0.0
419	C5	76854.000	-8.851	-8.851	0.000	0.0
42	B6	1969474.000	1.349	1.349	0.000	0.0
420	D5	729169.000	-5.336	-5.336	0.000	0.0
421	E5	1239261.000	-2.587	-2.587	0.000	0.0
422	F5	1088495.000	-3.399	-3.399	0.000	0.0
423	G5	576257.000	-6.160	-6.160	0.000	0.0
424	H5	73762.000	-8.868	-8.868	0.000	0.0
425	A6	1085563.000	-3.415	-3.415	0.000	0.0
426	B6	1578289.000	-0.760	-0.760	0.000	0.0
427	C6	1412768.000	-1.652	-1.652	0.000	0.0
428	D6	1286588.000	-2.332	-2.332	0.000	0.0
429	E6	2176459.000	2.464	2.464	0.000	0.0
43	C6	1633222.000	-0.464	-0.464	0.000	0.0
430	F6	500447.000	-6.568	-6.568	0.000	0.0
431	G6	2452672.000	3.953	3.953	0.000	0.0
432	H6	1086514.000	-3.410	-3.410	0.000	0.0
433	A7	3137822.000	7.645	7.645	0.000	0.0
434	B7	1351589.000	-1.981	-1.981	0.000	0.0
435	C7	1832045.000	0.608	0.608	0.000	0.0
436	D7	74645.000	-8.863	-8.863	0.000	0.0
437	E7	1681981.000	-0.201	-0.201	0.000	0.0
438	F7	402974.000	-7.094	-7.094	0.000	0.0
439	G7	1352267.000	-1.978	-1.978	0.000	0.0
44	D6	1489365.000	-1.239	-1.239	0.000	0.0
440	H7	3956843.000	12.059	12.059	0.000	0.0
441	A8	3540361.000	9.815	9.815	0.000	0.0
442	B8	1635308.000	-0.452	-0.452	0.000	0.0
443	C8	1857310.000	0.744	0.744	0.000	0.0
444	D8	797743.000	-4.966	-4.966	0.000	0.0
445	E8	3971570.000	12.138	12.138	0.000	0.0
446	F8	517876.000	-6.474	-6.474	0.000	0.0
447	G8	816798.000	-4.863	-4.863	0.000	0.0
448	H8	429862.000	-6.949	-6.949	0.000	0.0
449	A9	1026440.000	-3.734	-3.734	0.000	0.0
45	E6	2482128.000	4.111	4.111	0.000	0.0
450	B9	2690799.000	5.236	5.236	0.000	0.0

Unknowns_NoDiln (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
451	C9	504683.000	-6.546	-6.546	0....	0.0
452	D9	3854135.000	11.506	11.506	0....	0.0
453	E9	3892002.000	11.710	11.710	0....	0.0
454	F9	4047475.000	12.548	12.548	0....	0.0
455	G9	322640.000	-7.527	-7.527	0....	0.0
456	H9	1604697.000	-0.617	-0.617	0....	0.0
457	A10	1579227.000	-0.755	-0.755	0....	0.0
458	B10	4120469.000	12.941	12.941	0....	0.0
459	C10	1799047.000	0.430	0.430	0....	0.0
46	F6	594054.000	-6.064	-6.064	0....	0.0
460	D10	2052425.000	1.796	1.796	0....	0.0
461	E10	1117822.000	-3.241	-3.241	0....	0.0
462	F10	1977228.000	1.390	1.390	0....	0.0
463	G10	1801444.000	0.443	0.443	0....	0.0
464	H10	583513.000	-6.121	-6.121	0....	0.0
465	A11	646640.000	-5.780	-5.780	0....	0.0
466	B11	1300600.000	-2.256	-2.256	0....	0.0
467	C11	1887159.000	0.905	0.905	0....	0.0
468	D11	1210443.000	-2.742	-2.742	0....	0.0
469	E11	5484091.000	20.290	20.290	0....	0.0
47	G6	2724039.000	5.415	5.415	0....	0.0
470	F11	1344731.000	-2.018	-2.018	0....	0.0
471	G11	3633717.000	10.318	10.318	0....	0.0
472	H11	1139194.000	-3.126	-3.126	0....	0.0
473	A12	33580628.0...	171.709	171.709	0....	0.0
474	B12	17933646.0...	87.384	87.384	0....	0.0
475	C12	9219952.000	40.423	40.423	0....	0.0
476	D12	4580124.000	15.418	15.418	0....	0.0
477	E12	2418428.000	3.768	3.768	0....	0.0
478	F12	1193556.000	-2.833	-2.833	0....	0.0
479	G12	69751.000	-8.889	-8.889	0....	0.0
48	H6	1138300.000	-3.131	-3.131	0....	0.0
480	H12	68728.000	-8.895	-8.895	0....	0.0
481	A1	3487629.000	9.530	9.530	0....	0.0
482	B1	1563380.000	-0.840	-0.840	0....	0.0
483	C1	6743788.000	27.079	27.079	0....	0.0
484	D1	1545879.000	-0.934	-0.934	0....	0.0
485	E1	1524728.000	-1.048	-1.048	0....	0.0
486	F1	7376833.000	30.490	30.490	0....	0.0
487	G1	8447563.000	36.261	36.261	0....	0.0
488	H1	6296497.000	24.668	24.668	0....	0.0
489	A2	6572096.000	26.153	26.153	0....	0.0
49	A7	3439830.000	9.273	9.273	0....	0.0
490	B2	2879062.000	6.251	6.251	0....	0.0
491	C2	9898176.000	44.078	44.078	0....	0.0
492	D2	4464962.000	14.797	14.797	0....	0.0
493	E2	1306968.000	-2.222	-2.222	0....	0.0
494	F2	6495845.000	25.742	25.742	0....	0.0
495	G2	1581453.000	-0.743	-0.743	0....	0.0
496	H2	624398.000	-5.900	-5.900	0....	0.0
497	A3	7131496.000	29.168	29.168	0....	0.0
498	B3	4345328.000	14.153	14.153	0....	0.0
499	C3	2213941.000	2.666	2.666	0....	0.0
50	B7	1511477.000	-1.120	-1.120	0....	0.0
500	D3	2473268.000	4.064	4.064	0....	0.0
501	E3	2193317.000	2.555	2.555	0....	0.0
502	F3	3111756.000	7.505	7.505	0....	0.0

Unknowns_NoDiln (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
503	G3	1729020.000	0.053	0.053	0....	0.0
504	H3	6673714.000	26.701	26.701	0....	0.0
505	A4	11574284.0...	53.111	53.111	0....	0.0
506	B4	3815883.000	11.299	11.299	0....	0.0
507	C4	8810389.000	38.216	38.216	0....	0.0
508	D4	1890500.000	0.923	0.923	0....	0.0
509	E4	1180565.000	-2.903	-2.903	0....	0.0
51	C7	2205605.000	2.621	2.621	0....	0.0
510	F4	1637601.000	-0.440	-0.440	0....	0.0
511	G4	7063621.000	28.802	28.802	0....	0.0
512	H4	1400839.000	-1.716	-1.716	0....	0.0
513	A5	2689121.000	5.227	5.227	0....	0.0
514	B5	2180877.000	2.488	2.488	0....	0.0
515	C5	77349.000	-8.849	-8.849	0....	0.0
516	D5	776120.000	-5.083	-5.083	0....	0.0
517	E5	1252824.000	-2.514	-2.514	0....	0.0
518	F5	1119228.000	-3.234	-3.234	0....	0.0
519	G5	598217.000	-6.041	-6.041	0....	0.0
52	D7	76770.000	-8.852	-8.852	0....	0.0
520	H5	75123.000	-8.861	-8.861	0....	0.0
521	A6	1146925.000	-3.084	-3.084	0....	0.0
522	B6	1622522.000	-0.521	-0.521	0....	0.0
523	C6	1491899.000	-1.225	-1.225	0....	0.0
524	D6	1315526.000	-2.176	-2.176	0....	0.0
525	E6	2196790.000	2.574	2.574	0....	0.0
526	F6	504981.000	-6.544	-6.544	0....	0.0
527	G6	2487171.000	4.139	4.139	0....	0.0
528	H6	1132269.000	-3.163	-3.163	0....	0.0
529	A7	3245045.000	8.223	8.223	0....	0.0
53	E7	1825860.000	0.575	0.575	0....	0.0
530	B7	1383015.000	-1.812	-1.812	0....	0.0
531	C7	1912680.000	1.043	1.043	0....	0.0
532	D7	74707.000	-8.863	-8.863	0....	0.0
533	E7	1577768.000	-0.762	-0.762	0....	0.0
534	F7	414755.000	-7.030	-7.030	0....	0.0
535	G7	1412001.000	-1.656	-1.656	0....	0.0
536	H7	3957064.000	12.060	12.060	0....	0.0
537	A8	3758371.000	10.989	10.989	0....	0.0
538	B8	1704704.000	-0.078	-0.078	0....	0.0
539	C8	1908384.000	1.019	1.019	0....	0.0
54	F7	436701.000	-6.912	-6.912	0....	0.0
540	D8	836832.000	-4.755	-4.755	0....	0.0
541	E8	4232899.000	13.547	13.547	0....	0.0
542	F8	507753.000	-6.529	-6.529	0....	0.0
543	G8	818469.000	-4.854	-4.854	0....	0.0
544	H8	395961.000	-7.131	-7.131	0....	0.0
545	A9	1071994.000	-3.488	-3.488	0....	0.0
546	B9	2716508.000	5.375	5.375	0....	0.0
547	C9	516960.000	-6.479	-6.479	0....	0.0
548	D9	3948148.000	12.012	12.012	0....	0.0
549	E9	3994769.000	12.263	12.263	0....	0.0
55	G7	1579687.000	-0.752	-0.752	0....	0.0
550	F9	4342670.000	14.138	14.138	0....	0.0
551	G9	356708.000	-7.343	-7.343	0....	0.0
552	H9	1642793.000	-0.412	-0.412	0....	0.0
553	A10	1635868.000	-0.449	-0.449	0....	0.0
554	B10	4447590.000	14.704	14.704	0....	0.0

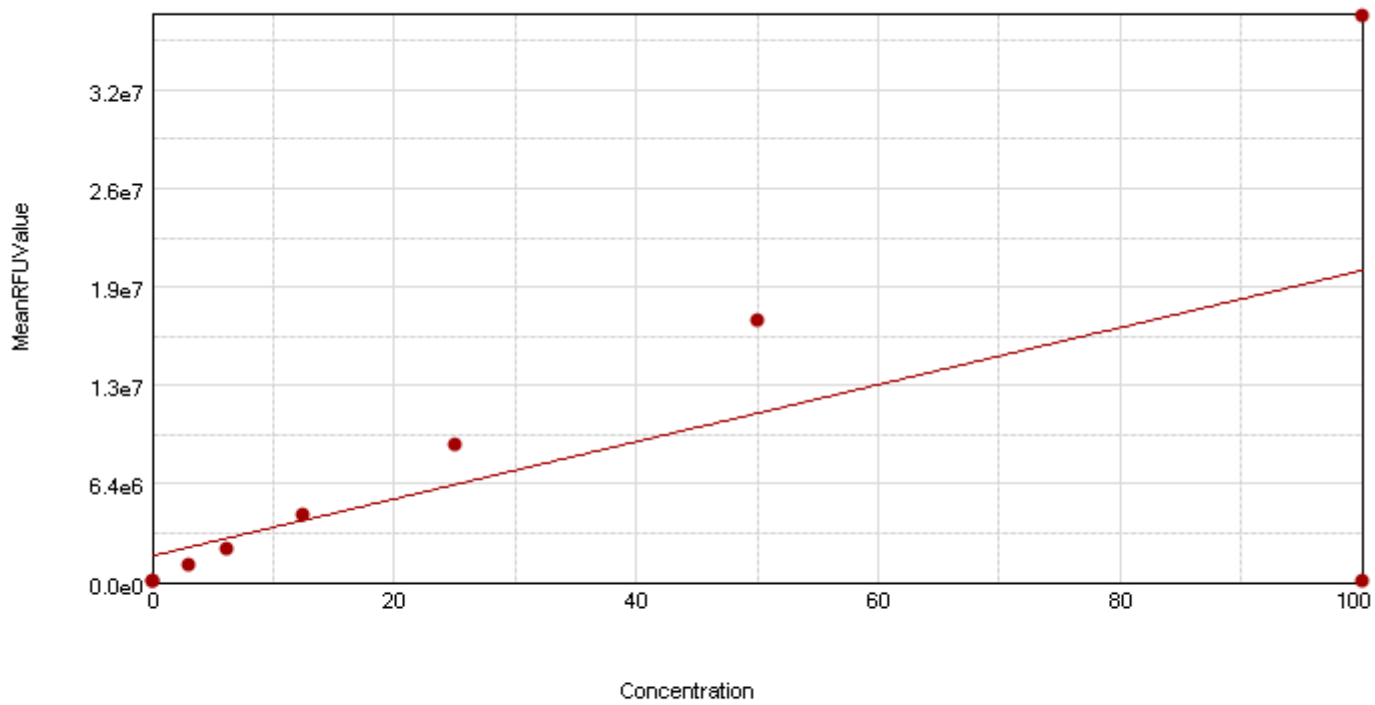
Unknowns_NoDiIn (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
555	C10	1802882.000	0.451	0.451	0....	0.0
556	D10	2095185.000	2.026	2.026	0....	0.0
557	E10	1115917.000	-3.251	-3.251	0....	0.0
558	F10	2024019.000	1.643	1.643	0....	0.0
559	G10	1903850.000	0.995	0.995	0....	0.0
56	H7	4274919.000	13.773	13.773	0....	0.0
560	H10	592462.000	-6.072	-6.072	0....	0.0
561	A11	688453.000	-5.555	-5.555	0....	0.0
562	B11	1367940.000	-1.893	-1.893	0....	0.0
563	C11	1903260.000	0.992	0.992	0....	0.0
564	D11	584022.000	-6.118	-6.118	0....	0.0
565	E11	6113651.000	23.683	23.683	0....	0.0
566	F11	1356446.000	-1.955	-1.955	0....	0.0
567	G11	3957068.000	12.060	12.060	0....	0.0
568	H11	1122054.000	-3.218	-3.218	0....	0.0
569	A12	33542128.0...	171.502	171.502	0....	0.0
57	A8	4073236.000	12.686	12.686	0....	0.0
570	B12	17732026.0...	86.297	86.297	0....	0.0
571	C12	10087986.0...	45.101	45.101	0....	0.0
572	D12	4634229.000	15.710	15.710	0....	0.0
573	E12	2315433.000	3.213	3.213	0....	0.0
574	F12	1259960.000	-2.475	-2.475	0....	0.0
575	G12	70794.000	-8.884	-8.884	0....	0.0
576	H12	69949.000	-8.888	-8.888	0....	0.0
577	A4	2680142.000	5.179	5.179	0....	0.0
578	B4	1412534.000	-1.653	-1.653	0....	0.0
579	C4	2768345.000	5.654	5.654	0....	0.0
58	B8	1909254.000	1.024	1.024	0....	0.0
580	D4	2303778.000	3.150	3.150	0....	0.0
581	E4	852189.000	-4.673	-4.673	0....	0.0
582	F4	2001796.000	1.523	1.523	0....	0.0
583	G4	509714.000	-6.518	-6.518	0....	0.0
584	H4	771154.000	-5.109	-5.109	0....	0.0
585	A5	2709957.000	5.339	5.339	0....	0.0
586	B5	1732240.000	0.070	0.070	0....	0.0
587	C5	3026048.000	7.043	7.043	0....	0.0
588	D5	2755305.000	5.584	5.584	0....	0.0
589	E5	1019310.000	-3.772	-3.772	0....	0.0
59	C8	2694219.000	5.254	5.254	0....	0.0
590	F5	2499401.000	4.205	4.205	0....	0.0
591	G5	651679.000	-5.753	-5.753	0....	0.0
592	H5	730056.000	-5.331	-5.331	0....	0.0
593	A6	3027630.000	7.051	7.051	0....	0.0
594	B6	1803196.000	0.453	0.453	0....	0.0
595	C6	3024412.000	7.034	7.034	0....	0.0
596	D6	2844395.000	6.064	6.064	0....	0.0
597	E6	1092798.000	-3.376	-3.376	0....	0.0
598	F6	2414725.000	3.748	3.748	0....	0.0
599	G6	660785.000	-5.704	-5.704	0....	0.0
60	D8	947690.000	-4.158	-4.158	0....	0.0
600	H6	767668.000	-5.128	-5.128	0....	0.0
601	A7	548923.000	-6.307	-6.307	0....	0.0
602	B7	1847395.000	0.691	0.691	0....	0.0
603	C7	3264216.000	8.326	8.326	0....	0.0
604	D7	2841354.000	6.047	6.047	0....	0.0
605	E7	1128512.000	-3.184	-3.184	0....	0.0
606	F7	2701752.000	5.295	5.295	0....	0.0

Unknowns_NoDiln (Contd)

Sample	Wells	RFU_Values	Concentration	MeanConc	SD	CV
607	G7	585345.000	-6.111	-6.111	0.000	0.0
608	H7	676451.000	-5.620	-5.620	0.000	0.0
609	A8	573408.000	-6.175	-6.175	0.000	0.0
61	E8	4569142.000	15.359	15.359	0.000	0.0
610	B8	1880843.000	0.871	0.871	0.000	0.0
611	C8	3251456.000	8.258	8.258	0.000	0.0
612	D8	2906525.000	6.399	6.399	0.000	0.0
613	E8	1085921.000	-3.413	-3.413	0.000	0.0
614	F8	2676092.000	5.157	5.157	0.000	0.0
615	G8	609453.000	-5.981	-5.981	0.000	0.0
616	H8	695230.000	-5.519	-5.519	0.000	0.0
617	A9	531919.000	-6.399	-6.399	0.000	0.0
618	B9	1645077.000	-0.400	-0.400	0.000	0.0
619	C9	2988179.000	6.839	6.839	0.000	0.0
62	F8	641806.000	-5.807	-5.807	0.000	0.0
620	D9	2623402.000	4.873	4.873	0.000	0.0
621	E9	1110972.000	-3.278	-3.278	0.000	0.0
622	F9	2411829.000	3.733	3.733	0.000	0.0
623	G9	560757.000	-6.243	-6.243	0.000	0.0
624	H9	644190.000	-5.794	-5.794	0.000	0.0
63	G8	870304.000	-4.575	-4.575	0.000	0.0
64	H8	432474.000	-6.935	-6.935	0.000	0.0
65	A9	1332128.000	-2.086	-2.086	0.000	0.0
66	B9	2893044.000	6.326	6.326	0.000	0.0
67	C9	661893.000	-5.698	-5.698	0.000	0.0
68	D9	4115344.000	12.913	12.913	0.000	0.0
69	E9	4360300.000	14.233	14.233	0.000	0.0
70	F9	4659844.000	15.848	15.848	0.000	0.0
71	G9	392096.000	-7.152	-7.152	0.000	0.0
72	H9	1743758.000	0.132	0.132	0.000	0.0
73	A10	1802850.000	0.451	0.451	0.000	0.0
74	B10	5021469.000	17.797	17.797	0.000	0.0
75	C10	1977290.000	1.391	1.391	0.000	0.0
76	D10	2367764.000	3.495	3.495	0.000	0.0
77	E10	1157864.000	-3.025	-3.025	0.000	0.0
78	F10	2306068.000	3.163	3.163	0.000	0.0
79	G10	2120771.000	2.164	2.164	0.000	0.0
80	H10	684518.000	-5.576	-5.576	0.000	0.0
81	A11	756049.000	-5.191	-5.191	0.000	0.0
82	B11	1523817.000	-1.053	-1.053	0.000	0.0
83	C11	2327899.000	3.280	3.280	0.000	0.0
84	D11	703624.000	-5.473	-5.473	0.000	0.0
85	E11	6521884.000	25.883	25.883	0.000	0.0
86	F11	1408839.000	-1.673	-1.673	0.000	0.0
87	G11	4636840.000	15.724	15.724	0.000	0.0
88	H11	1286458.000	-2.332	-2.332	0.000	0.0
89	A12	71753.000	-8.879	-8.879	0.000	0.0
90	B12	72277.000	-8.876	-8.876	0.000	0.0
91	C12	72254.000	-8.876	-8.876	0.000	0.0
92	D12	71850.000	-8.878	-8.878	0.000	0.0
93	E12	72283.000	-8.876	-8.876	0.000	0.0
94	F12	77726.000	-8.847	-8.847	0.000	0.0
95	G12	186201.000	-8.262	-8.262	0.000	0.0
96	H12	69032.000	-8.893	-8.893	0.000	0.0

Standard Curve



● STD#1 (Standards@PicoGreen: MeanRF... vs Concentr...)

Curve Fit Results ▼