



**PCR Standard Curve Report
with PCR Amp Cycle Graph
PCR Base Line Subtracted Curve Fit Data**

Current Date: 19-Oct-16 11:12 PM
Data generated on: 19-Oct-16 at 04:46 PM.

Optical data file name: BIO510 19-Oct-16.opd
Plate Setup file used: 510 2016.pts
Protocol file used: Rymond.510.tmo

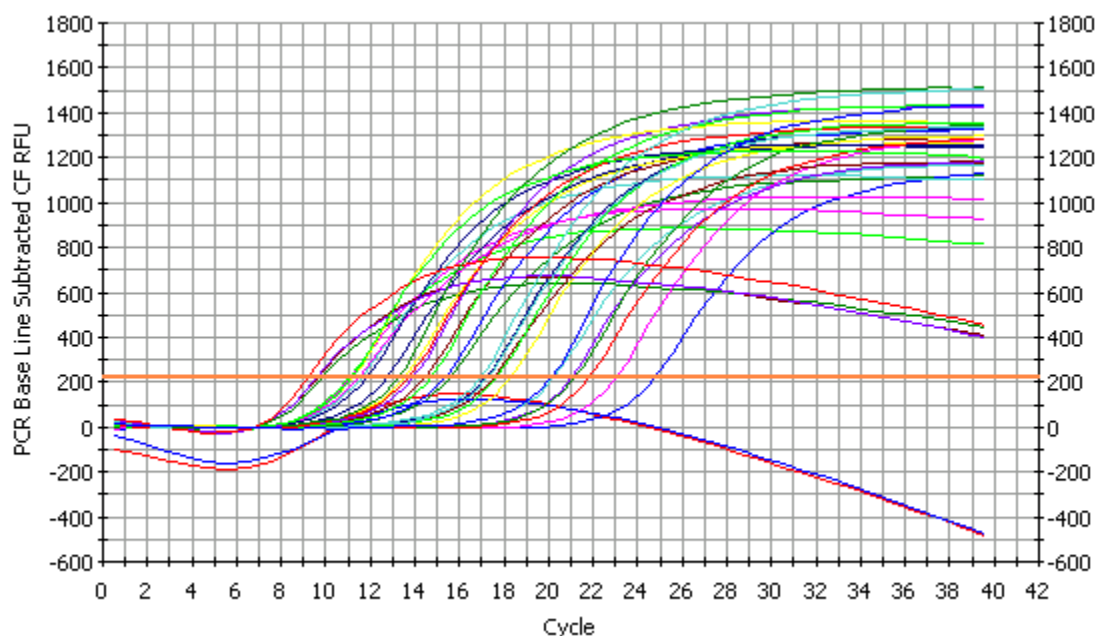
Sample volume: 25.00 ul
Hot Start? No
Well factor collection: Experimental Plate

Comments

Protocol

Cycle 1:	(1X)		
Step 1:		95.0°C	for 03:00
Cycle 2:	(40X)		
Step 1:		95.0°C	for 00:30
Step 2:		50.0°C	for 00:30
Step 3:		72.0°C	for 01:00
Data collection and real-time analysis enabled.			
Cycle 3:	(1X)		
Step 1:		95.0°C	for 01:00
Cycle 4:	(80X)		
Step 1:		55.0°C	for 00:10
Increase setpoint temperature after cycle 2 by 0.5°C			
Melt curve data collection and analysis enabled.			
Cycle 5:	(1X)		
Step 1:		4.0°C	HOLD

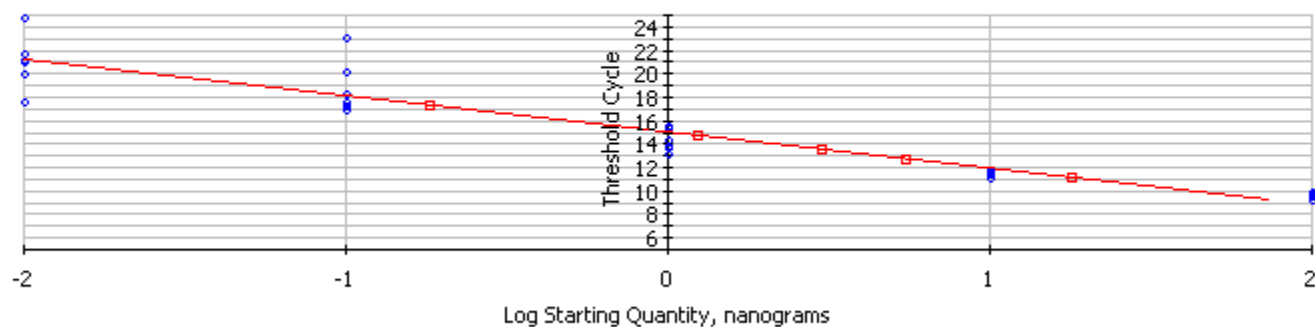
PCR Amp/Cycle Graph for SYBR-490



Standard Curve Graph for SYBR-490

Correlation Coefficient: 0.935 Slope: -3.096 Intercept: 15.029 $Y = -3.096 X + 15.029$
 PCR Efficiency: 110.4 %

□ Unknowns
 ○ Standards



Data Analysis Parameters

Calculated threshold using the **maximum correlation coefficient approach** is **223.5**.

Per-well baseline cycles have been determined automatically.

Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

Weighted Mean digital filtering has been applied. Global filtering is **off**.

Standard Curve Spreadsheet Data for SYBR-490 Units: nanograms

Type	Identifier	Rep	Ct	Log SQ	SQ	SQ Mean	SQ SD	Ct Mean	Ct SD	Set Point
A02	Standard g1	2	11.07	1.000	1.00E+01	1.00E+01	N/A	11.07	N/A	
A03	Standard g1	3	15.60	0.000	1.00E+00	1.00E+00	N/A	15.60	N/A	

A04	Standard g1	4	20.20	(1.000)	1.00E-01	1.00E-01	N/A	20.20	N/A
A05	Standard g1	5	24.80	(2.000)	1.00E-02	1.00E-02	N/A	24.80	N/A
A06	Unknown g1	1	11.15	1.252	1.78E+01	1.78E+01	N/A	11.15	N/A
B01	Standard g2	6	9.92	2.000	1.00E+02	1.00E+02	N/A	9.92	N/A
B02	Standard g2	7	11.63	1.000	1.00E+01	1.00E+01	N/A	11.63	N/A
B03	Standard g2	8	15.38	0.000	1.00E+00	1.00E+00	N/A	15.38	N/A
B04	Standard g2	9	23.07	(1.000)	1.00E-01	1.00E-01	N/A	23.07	N/A
B05	Standard g2	10	17.60	(2.000)	1.00E-02	1.00E-02	N/A	17.60	N/A
B06	Unknown g2	2	12.74	0.741	5.51E+00	5.51E+00	N/A	12.74	N/A
C02	Standard g3	12	11.47	1.000	1.00E+01	1.00E+01	N/A	11.47	N/A
C03	Standard g3	13	14.43	0.000	1.00E+00	1.00E+00	N/A	14.43	N/A
C04	Standard g3	14	17.24	(1.000)	1.00E-01	1.00E-01	N/A	17.24	N/A
C05	Standard g3	15	21.02	(2.000)	1.00E-02	1.00E-02	N/A	21.02	N/A
C06	Unknown g3	3	13.55	0.478	3.01E+00	3.01E+00	N/A	13.55	N/A
D01	Standard g4	16	9.73	2.000	1.00E+02	1.00E+02	N/A	9.73	N/A
D02	Standard g4	17	11.84	1.000	1.00E+01	1.00E+01	N/A	11.84	N/A
D03	Standard g4	18	13.92	0.000	1.00E+00	1.00E+00	N/A	13.92	N/A
D04	Standard g4	19	18.33	(1.000)	1.00E-01	1.00E-01	N/A	18.33	N/A
D05	Standard g4	20	21.83	(2.000)	1.00E-02	1.00E-02	N/A	21.83	N/A
D06	Unknown g5	4	14.75	0.090	1.23E+00	1.23E+00	N/A	14.75	N/A
E01	Standard TA	21	9.64	2.000	1.00E+02	1.00E+02	N/A	9.64	N/A
E02	Standard TA	22	11.22	1.000	1.00E+01	1.00E+01	N/A	11.22	N/A
E03	Standard TA	23	13.70	0.000	1.00E+00	1.00E+00	N/A	13.70	N/A
E04	Standard TA	24	17.71	(1.000)	1.00E-01	1.00E-01	N/A	17.71	N/A
E05	Standard TA	25	21.18	(2.000)	1.00E-02	1.00E-02	N/A	21.18	N/A
E06	Unknown TA	5	17.32	(0.740)	1.82E-01	1.82E-01	N/A	17.32	N/A
F01	Standard TA	26	9.24	2.000	1.00E+02	1.00E+02	N/A	9.24	N/A
F02	Standard TA	27	11.17	1.000	1.00E+01	1.00E+01	N/A	11.17	N/A
F03	Standard TA	28	13.22	0.000	1.00E+00	1.00E+00	N/A	13.22	N/A
F04	Standard TA	29	16.95	(1.000)	1.00E-01	1.00E-01	N/A	16.95	N/A
F05	Standard TA	30	20.10	(2.000)	1.00E-02	1.00E-02	N/A	20.10	N/A
A01	Standard g1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C01	Standard g3	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Wells Excluded from Analysis

No wells have been excluded from analysis.

Modified Well Contents

Units have not been modified. Original units were nanograms.
No wells have been modified.



Melt Curve Report

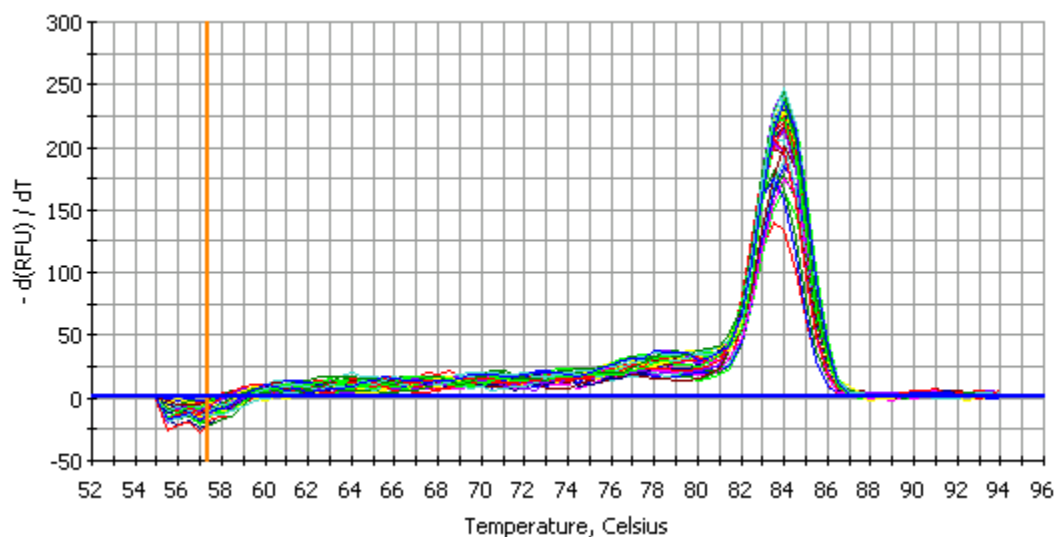
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Data generated on: 19-Oct-16 at 04:46 PM.

Optical data file name: BIO510 19-Oct-16.opd
Plate Setup file used: 510 2016.pts
Protocol file used: Rymond.510.tmo

Sample volume: 25.00 ul
Hot Start? No
Well factor collection: Experimental Plate

Comments

Melt Curve Graph for SYBR-490



Melt Curve Analysis Parameters

Weighted Mean digital filtering has been applied. Global filtering is **off**.
Threshold for automatic peak detection is set at **1.00**.

Melt Curve Analysis Spreadsheet Data for SYBR-490

	Melt Temp	Beg. Temp	End Temp
Sample average	83.5C	80.5C	87.0C