



## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:42 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

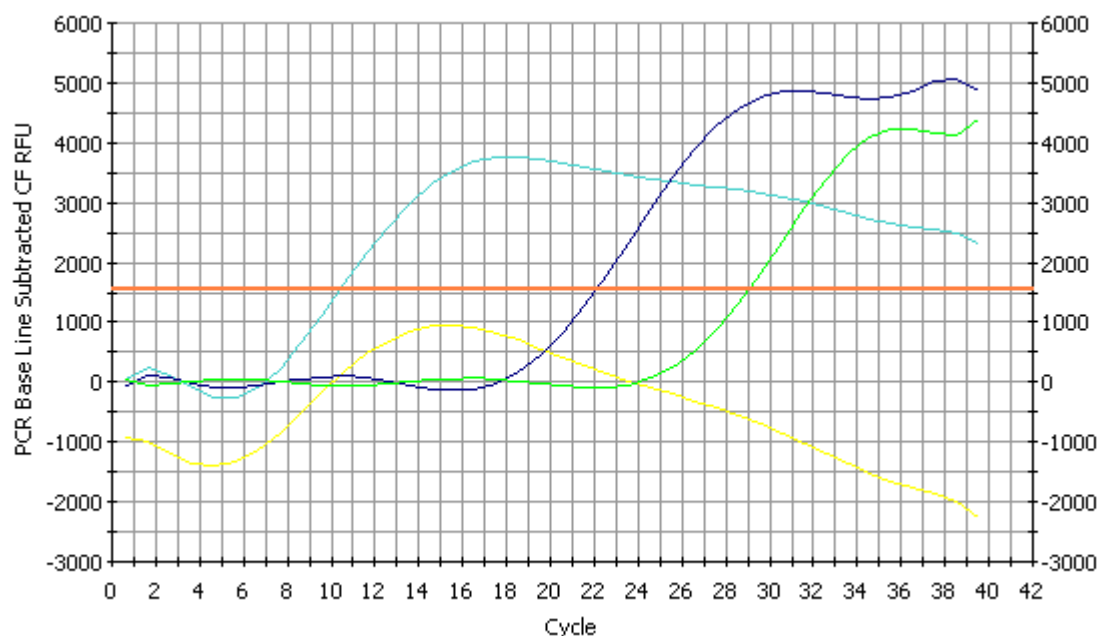
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **1,563.0**.

Per-well baseline cycles have been determined automatically.

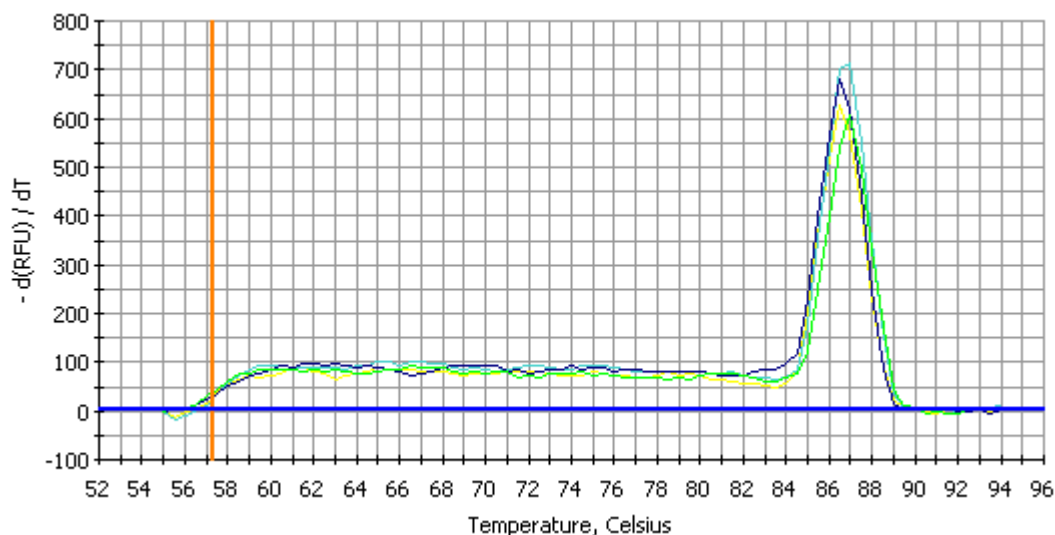
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B08	0294_methanol_1zu1	12.8	
D08	0294_methanol_1zu2	8.8	
F08	0294_acetat_1zu1	20.3	
H08	0294_acetat_1zu2	27.1	

### 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**

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B8</b>	0294_methanol_1zu1	B8.1	86.5	84.0	91
		B8.2	78.5	77.5	83.5
		B8.3	75.0	74.5	77
		B8.4	72.0	69.5	74
		B8.5	65.0	63.5	69
		B8.6	61.0	56.0	63
<b>D8</b>	0294_methanol_1zu2	D8.1	87.0	83.5	90.5
		D8.2	65.5	64.5	66
		D8.3	59.5	56.0	63.5
<b>F8</b>	0294_acetat_1zu1	F8.1	86.5	82.0	89.5
		F8.2	79.5	79.0	81.5
		F8.3	74.0	72.5	76
		F8.4	69.0	67.0	72
		F8.5	64.5	64.0	66.5
		F8.6	63.0	55.0	64
<b>H8</b>	0294_acetat_1zu2	H8.1	87.0	84.0	90.5
		H8.2	81.5	80.0	83.5
		H8.3	74.5	73.0	79.5
		H8.4	70.5	70.0	72.5
		H8.5	66.5	64.5	69
		H8.6	61.0	55.0	64

### **Modified Well Contents**

No wells have been modified.



## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:42 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

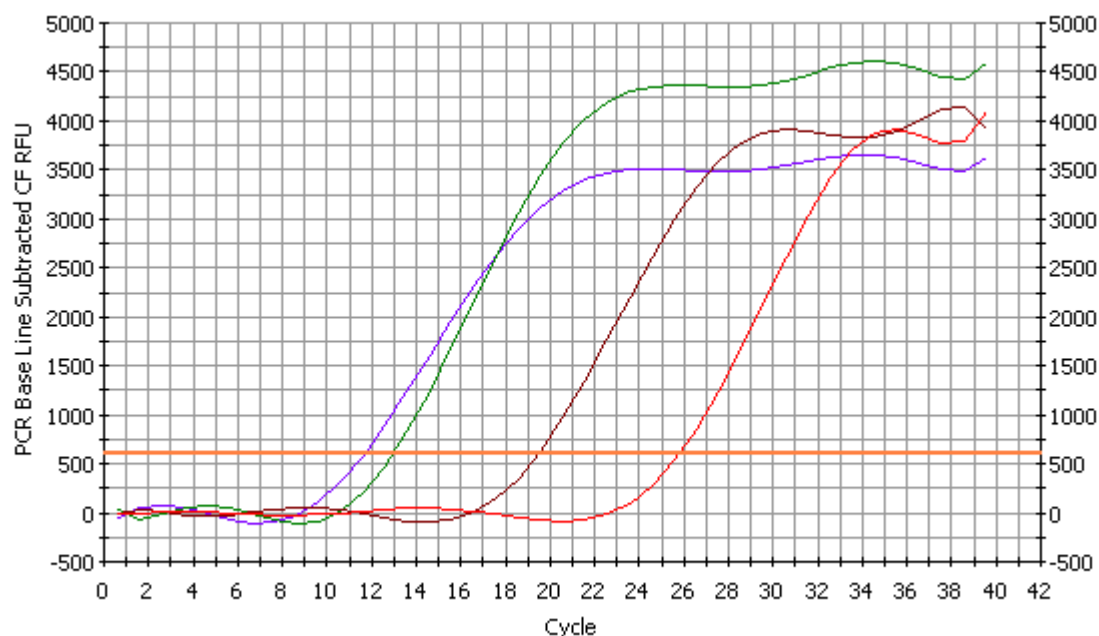
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **604.9**.

Per-well baseline cycles have been determined automatically.

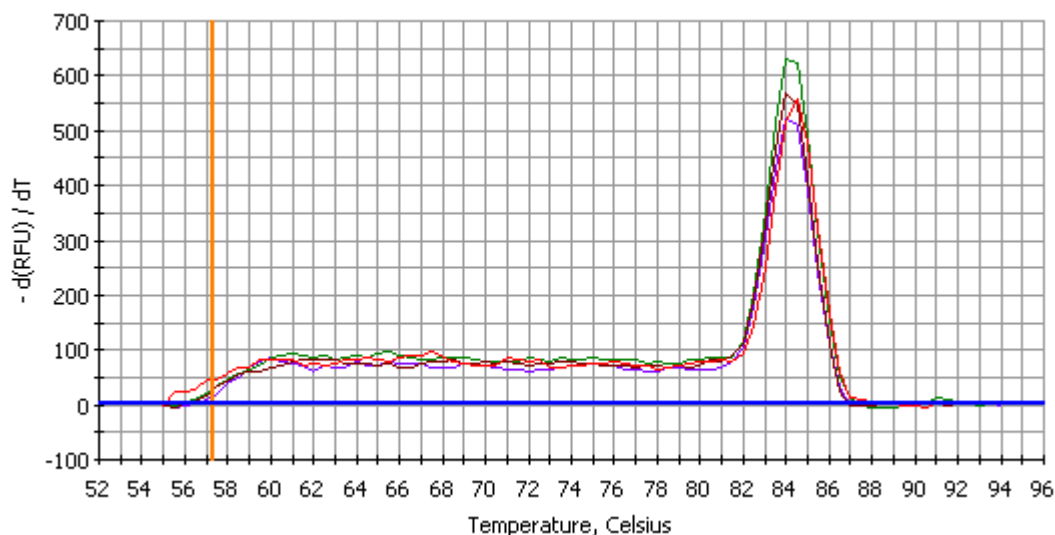
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B07	0739_methanol_1zu1	12.1	
D07	0739_methanol_1zu2	13.3	
F07	0739_acetat_1zu1	19.9	
H07	0739_acetat_1zu2	26.2	

### 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

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B7</b>	0739_methanol_1zu1	B7.1	84.0	80.0	87.5
		B7.2	78.5	78.0	79.5
		B7.3	75.0	73.0	78
		B7.4	69.0	68.5	72
		B7.5	65.5	63.5	68
		B7.6	60.0	56.0	62
<b>D7</b>	0739_methanol_1zu2	D7.1	84.0	80.0	87.5
		D7.2	75.0	73.0	79
		D7.3	72.0	71.5	73
		D7.4	68.5	68.0	71.5
		D7.5	65.5	63.5	67.5
		D7.6	61.0	55.5	63
<b>F7</b>	0739_acetat_1zu1	F7.1	84.0	80.0	87
		F7.2	78.0	77.5	79.5
		F7.3	74.0	72.5	77
		F7.4	70.0	69.5	72
		F7.5	68.5	66.5	69
		F7.6	62.0	55.5	66
<b>H7</b>	0739_acetat_1zu2	H7.1	84.5	78.5	89.5
		H7.2	76.0	74.0	78
		H7.3	71.0	70.5	73.5
		H7.4	67.5	66.0	69.5
		H7.5	64.5	63.0	65.5
		H7.6	61.0	55.0	62.5

### **Modified Well Contents**

No wells have been modified.





## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:43 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

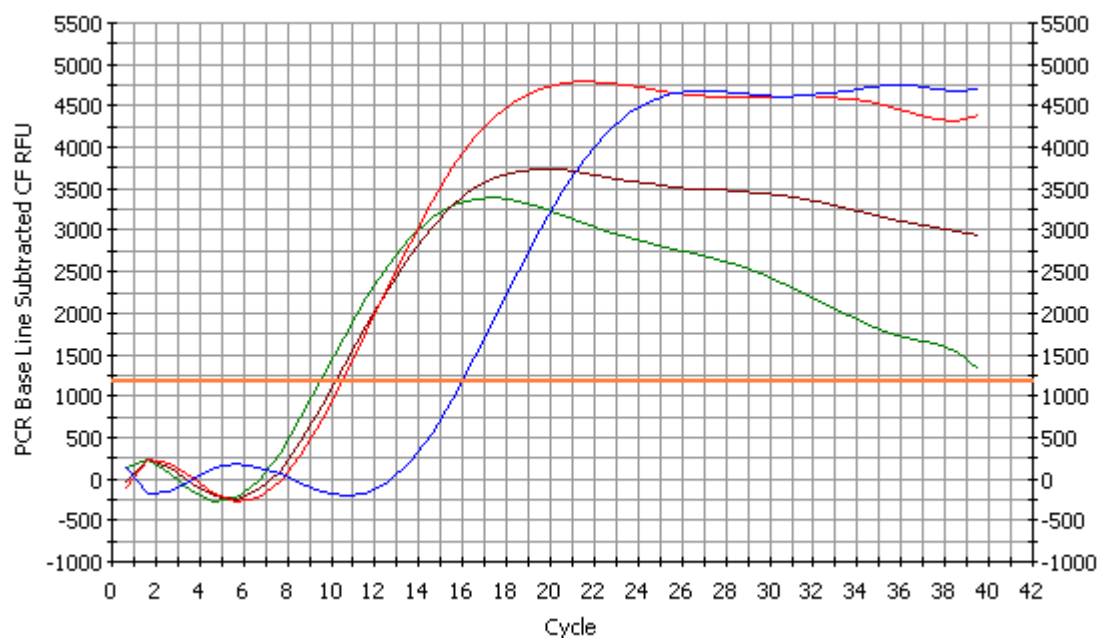
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **1,179.9**.

Per-well baseline cycles have been determined automatically.

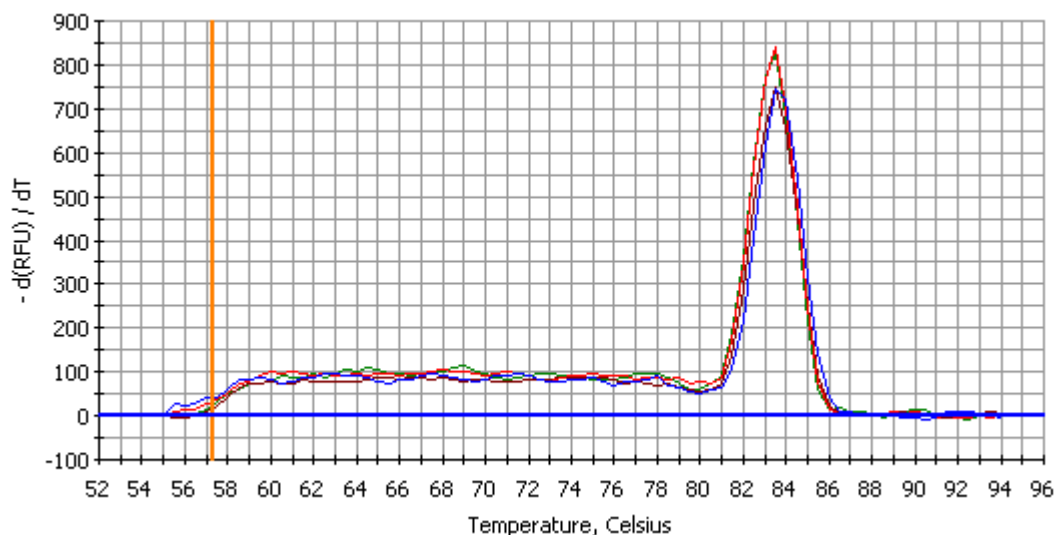
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B11	0915_methanol_1zu1	8.6	
D11	0915_methanol_1zu2	9.3	
F11	0915_acetat_1zu1	9.7	
H11	0915_acetat_1zu2	15.0	

### 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**

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B11</b>	0915_methanol_1zu1	B11.1	83.5	80.0	88.5
		B11.2	78.0	76.0	79.5
		B11.3	72.5	71.5	75
		B11.4	69.0	67.5	71
		B11.5	64.5	63.0	67
		B11.6	62.0	56.0	62.5
<b>D11</b>	0915_methanol_1zu2	D11.1	83.5	80.5	87.5
		D11.2	74.5	71.5	80
		D11.3	67.0	66.0	67.5
		D11.4	61.5	61.0	63.5
		D11.5	60.0	56.5	60.5
<b>F11</b>	0915_acetat_1zu1	F11.1	83.5	79.5	87
		F11.2	75.0	73.5	77
		F11.3	71.0	70.5	73
		F11.4	68.0	67.0	70
		F11.5	65.0	64.5	66
		F11.6	60.0	55.0	63
<b>H11</b>	0915_acetat_1zu2	H11.1	83.5	80.5	87.5
		H11.2	78.0	77.0	80
		H11.3	75.0	74.0	76
		H11.4	71.5	70.0	73.5
		H11.5	67.5	66.0	69.5
		H11.6	63.0	61.0	65.5
		H11.7	59.5	55.0	60.5

### **Modified Well Contents**

No wells have been modified.



## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:43 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

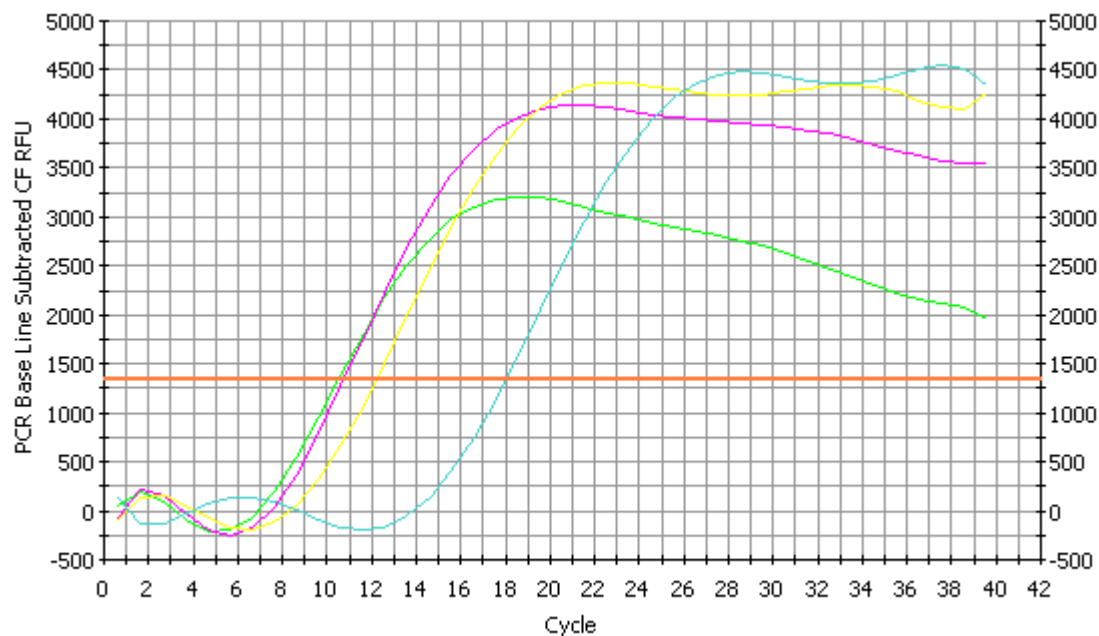
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **1,334.7**.

Per-well baseline cycles have been determined automatically.

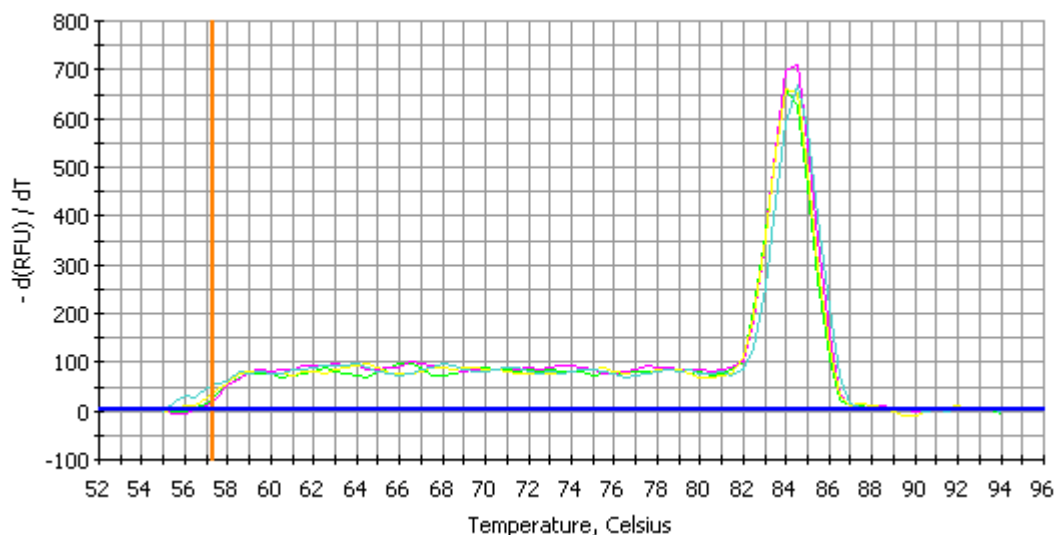
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B10	0919_methanol_1zu1	9.1	
D10	0919_methanol_1zu2	9.5	
F10	0919_acetat_1zu1	10.8	
H10	0919_acetat_1zu2	16.5	

### 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

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B10</b>	0919_methanol_1zu1	B10.1	84.0	81.0	88
		B10.2	79.0	78.5	80.5
		B10.3	77.0	76.0	78
		B10.4	73.0	72.5	75
		B10.5	69.5	68.5	71.5
		B10.6	66.0	65.0	68
		B10.7	62.5	61.0	64.5
		B10.8	59.5	55.5	60.5
<b>D10</b>	0919_methanol_1zu2	D10.1	84.5	81.0	87.5
		D10.2	77.5	76.5	80.5
		D10.3	73.5	72.5	76
		D10.4	71.0	69.5	71.5
		D10.5	66.5	65.0	69
		D10.6	63.0	56.0	64.5
		D10.7	59.5	55.0	60.5
<b>F10</b>	0919_acetat_1zu1	F10.1	84.0	80.5	89
		F10.2	78.0	77.5	80
		F10.3	75.5	73.0	77
		F10.4	69.5	69.0	71.5
		F10.5	68.0	66.5	68.5
		F10.6	64.5	62.5	66
		F10.7	59.5	55.0	61
<b>H10</b>	0919_acetat_1zu2	H10.1	84.5	82.0	88.5
		H10.2	78.5	77.0	81.5
		H10.3	74.5	74.0	76.5
		H10.4	71.5	70.5	73.5
		H10.5	68.0	66.5	70
		H10.6	64.0	61.5	66
		H10.7	59.5	55.0	60.5

### **Modified Well Contents**

No wells have been modified.





## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:40 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

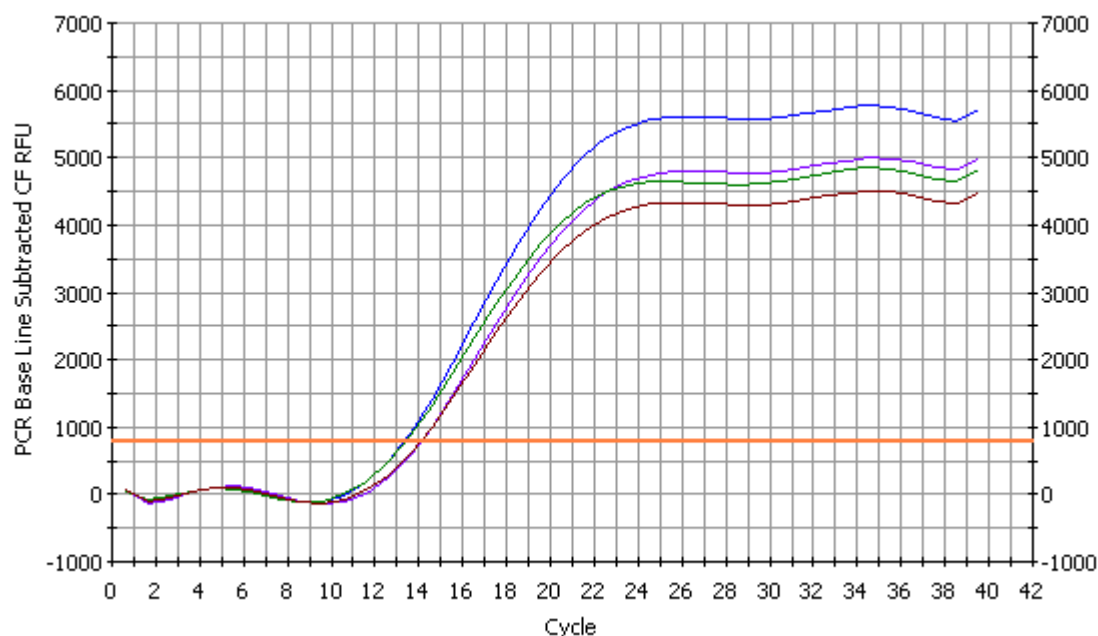
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **783.6**.

Per-well baseline cycles have been determined automatically.

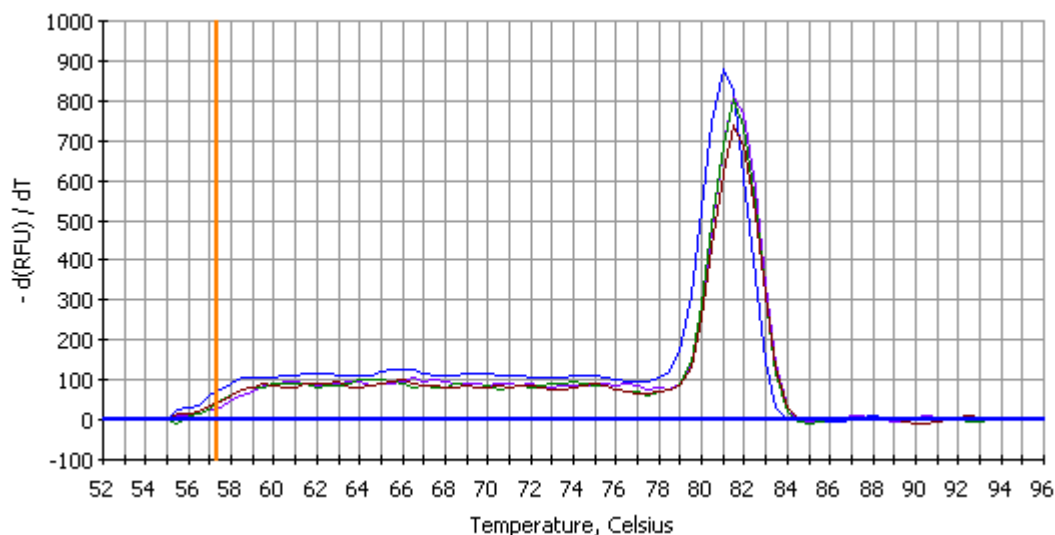
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B03	1180_methanol_1zu1	13.2	
D03	1180_methanol_1zu2	13.9	
F03	1180_acetat_1zu1	13.2	
H03	1180_acetat_1zu2	13.9	

### 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

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B3</b>	1180_methanol_1zu1	B3.1	81.0	77.0	84.5
		B3.2	74.0	73.5	76.5
		B3.3	70.0	68.5	72
		B3.4	66.0	64.5	68
		B3.5	62.0	55.0	64
<b>D3</b>	1180_methanol_1zu2	D3.1	81.5	79.0	85
		D3.2	75.5	74.0	78.5
		D3.3	71.0	70.5	73
		D3.4	66.5	65.5	70
		D3.5	63.5	63.0	64.5
		D3.6	60.5	55.0	62.5
<b>F3</b>	1180_acetat_1zu1	F3.1	81.5	78.0	84.5
		F3.2	74.0	71.0	77.5
		F3.3	68.5	68.0	70.5
		F3.4	65.0	63.0	66.5
		F3.5	61.5	55.5	62
<b>H3</b>	1180_acetat_1zu2	H3.1	81.5	78.0	85
		H3.2	75.0	74.0	77.5
		H3.3	72.0	71.5	73.5
		H3.4	66.0	64.0	68
		H3.5	63.0	61.5	63.5
		H3.6	59.5	55.0	61

### Modified Well Contents

No wells have been modified.



## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:41 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

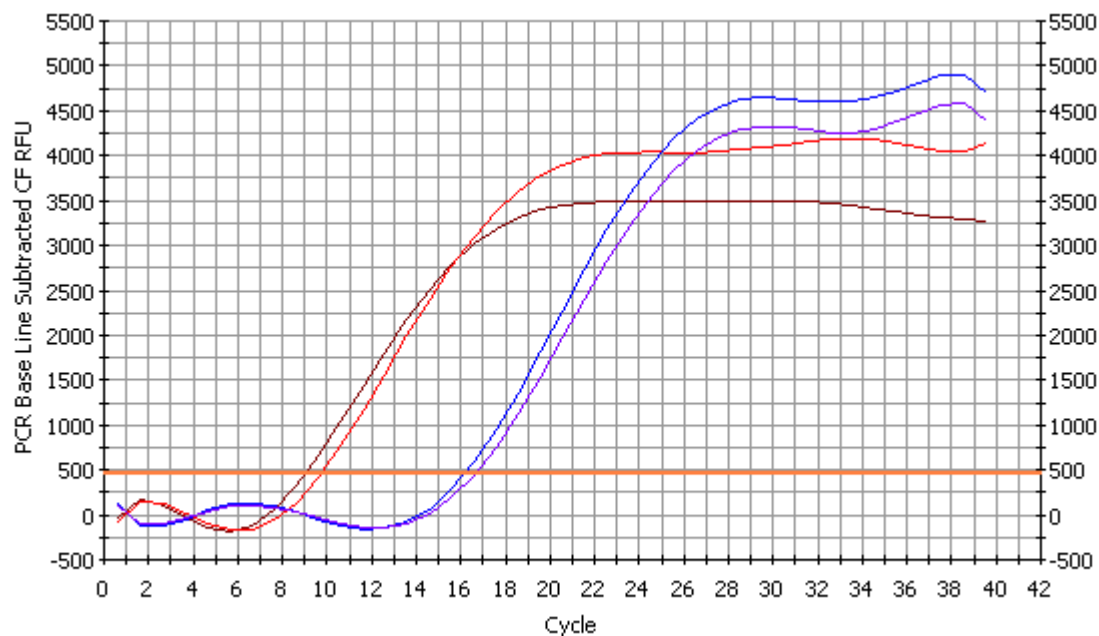
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **451.1**.

Per-well baseline cycles have been determined automatically.

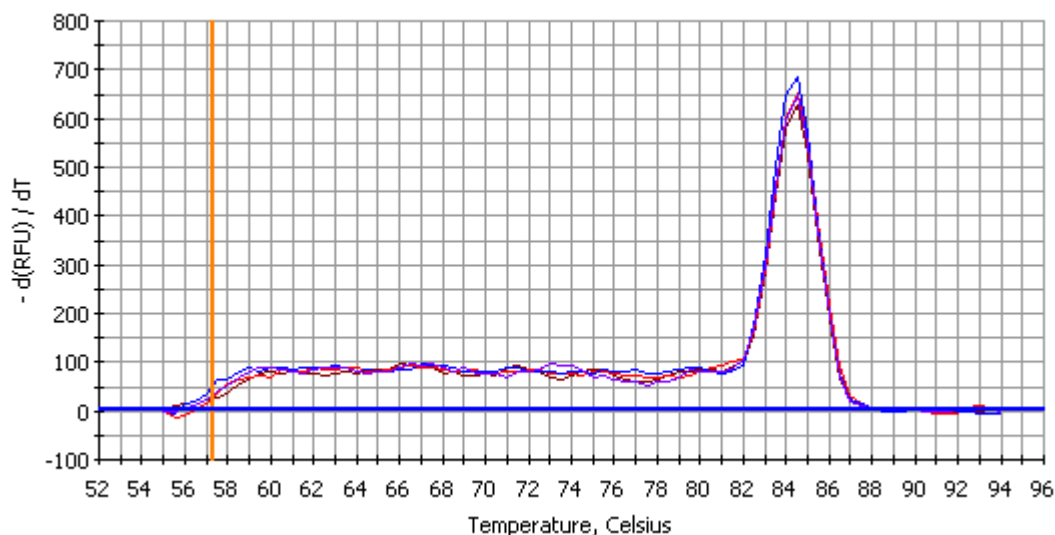
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B05	2377_methanol_1zu1	9.8	
D05	2377_methanol_1zu2	10.5	
F05	2377_acetat_1zu1	17.0	
H05	2377_acetat_1zu2	17.5	

### 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

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B5</b>	2377_methanol_1zu1	B5.1	84.5	81.0	89.5
		B5.2	75.0	74.0	77
		B5.3	71.5	70.5	73.5
		B5.4	66.0	65.5	69.5
		B5.5	60.0	55.0	62.5
<b>D5</b>	2377_methanol_1zu2	D5.1	84.5	79.0	88.5
		D5.2	75.0	74.5	78
		D5.3	72.5	70.5	74.5
		D5.4	66.5	65.0	70
		D5.5	63.5	61.5	64.5
<b>F5</b>	2377_acetat_1zu1	F5.1	84.5	81.5	89
		F5.2	80.0	78.0	81
		F5.3	77.0	75.0	77.5
		F5.4	74.0	73.5	75
		F5.5	71.0	70.0	73.5
		F5.6	67.0	65.5	69
		F5.7	63.0	61.5	65
		F5.8	60.0	55.5	61
<b>H5</b>	2377_acetat_1zu2	H5.1	84.5	78.0	91
		H5.2	73.0	71.0	77.5
		H5.3	66.5	65.5	69.5
		H5.4	63.5	62.0	64.5
		H5.5	59.5	55.5	61.5

### **Modified Well Contents**

No wells have been modified.





## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:42 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

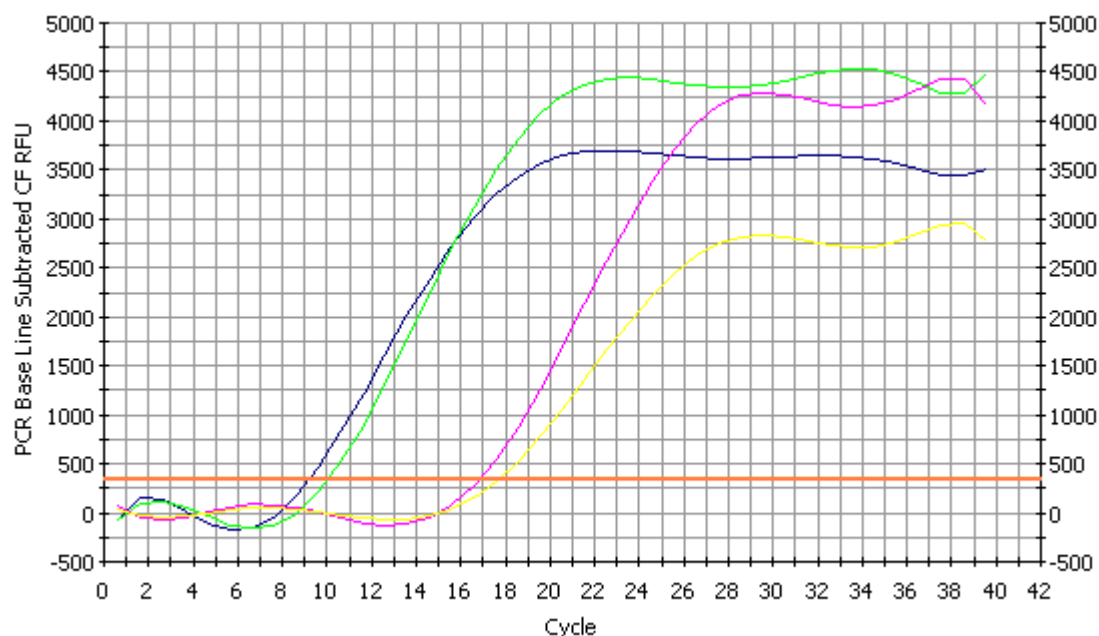
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **346.3**.

Per-well baseline cycles have been determined automatically.

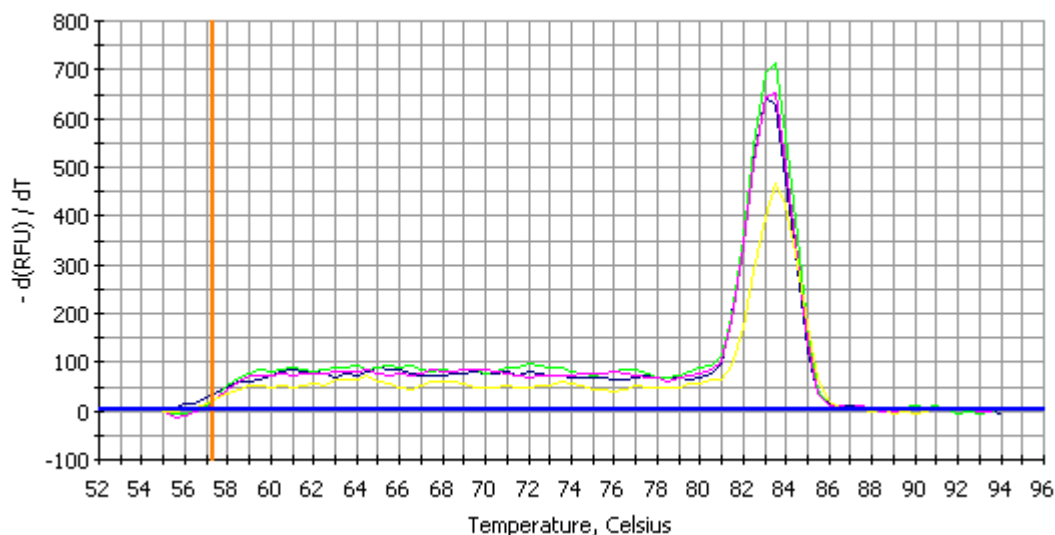
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B06	2378_methanol_1zu1	10.3	
D06	2378_methanol_1zu2	11.2	
F06	2378_acetat_1zu1	18.1	
H06	2378_acetat_1zu2	19.3	

### 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**

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B6</b>	2378_methanol_1zu1	B6.1	83.0	79.5	89
		B6.2	69.5	68.0	71.5
		B6.3	65.0	64.0	67.5
		B6.4	61.0	55.0	63
<b>D6</b>	2378_methanol_1zu2	D6.1	83.5	79.0	87.5
		D6.2	76.5	75.5	78.5
		D6.3	72.0	70.5	75
		D6.4	69.0	68.5	70
		D6.5	66.5	65.0	67.5
		D6.6	64.0	62.5	64.5
		D6.7	61.0	56.5	62
<b>F6</b>	2378_acetat_1zu1	F6.1	83.5	79.0	88.5
		F6.2	76.0	75.0	78.5
		F6.3	73.0	72.5	74
		F6.4	70.0	67.0	72
<b>H6</b>	2378_acetat_1zu2	F6.5	64.5	56.5	66.5
		H6.1	83.5	79.0	89
		H6.2	77.0	76.5	78.5
		H6.3	73.5	72.0	76
		H6.4	67.5	67.0	69.5
		H6.5	64.5	61.5	66.5
		H6.6	60.5	55.5	61

### **Modified Well Contents**

No wells have been modified.



## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:40 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

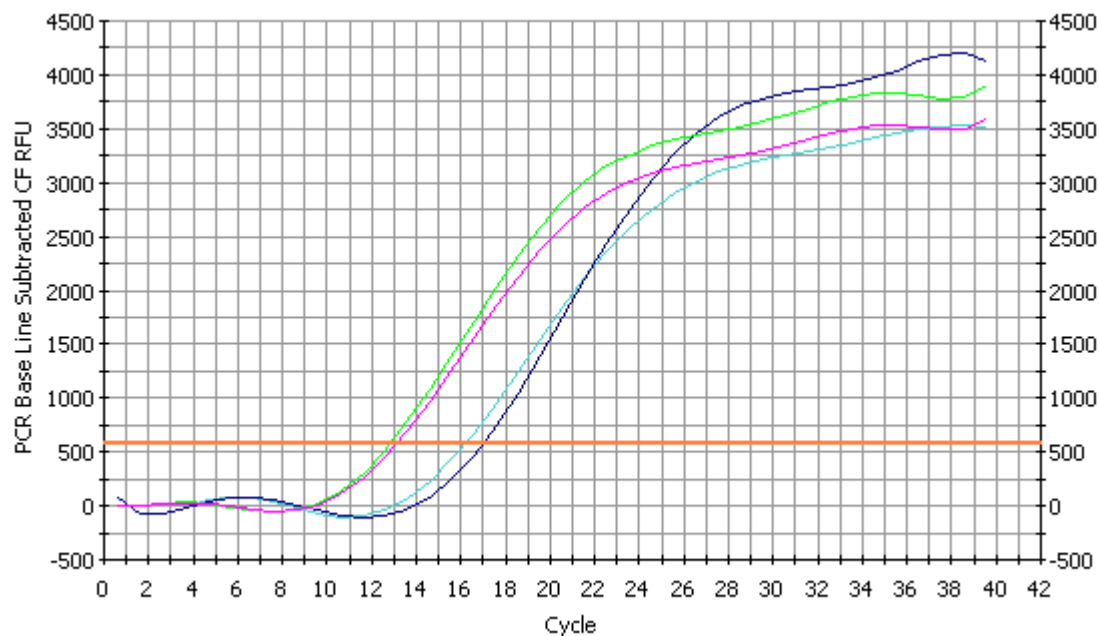
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **573.7**.

Per-well baseline cycles have been determined automatically.

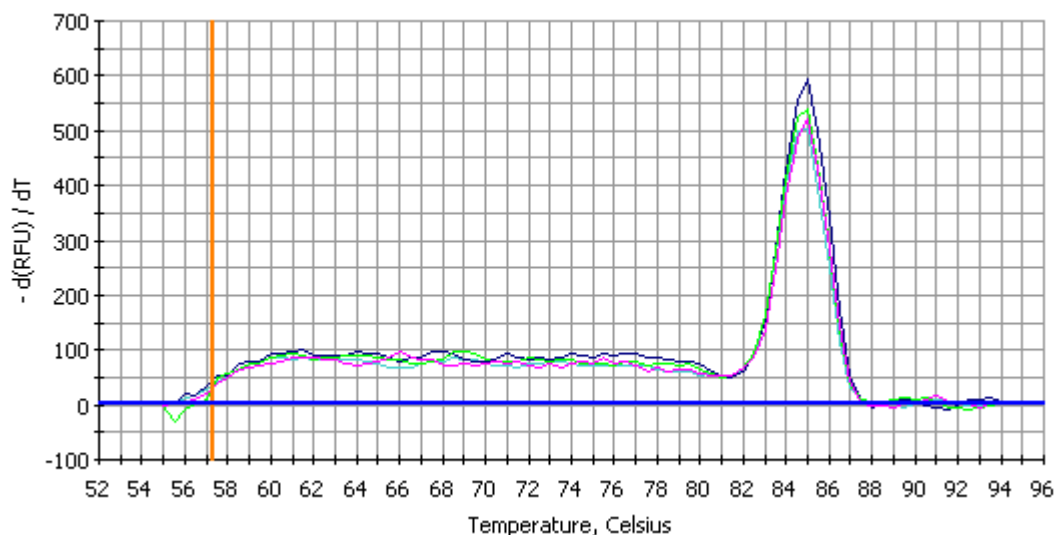
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B02	2720_methanol_1zu1	16.8	
D02	2720_methanol_1zu2	17.5	
F02	2720_acetat_1zu1	13.4	
H02	2720_acetat_1zu2	13.7	

### 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

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B2</b>	4720_methanol_1zu1	B2.1	85.0	82.0	89.5
		B2.2	76.0	75.5	81.5
		B2.3	73.5	72.0	75
		B2.4	68.5	67.0	71.5
		B2.5	63.0	62.5	66.5
		B2.6	61.5	61.0	62.5
		B2.7	60.0	55.0	61
<b>D2</b>	4720_methanol_1zu2	D2.1	85.0	82.0	88
		D2.2	76.5	76.0	81.5
		D2.3	74.0	73.5	75
		D2.4	71.0	70.5	73
		D2.5	68.0	66.5	70
		D2.6	64.0	63.5	66
		D2.7	61.5	55.0	63
<b>F2</b>	4720_acetat_1zu1	F2.1	85.0	81.0	88.5
		F2.2	76.5	76.0	77.5
		F2.3	73.5	73.0	76
		F2.4	72.0	71.5	73
		F2.5	69.0	67.0	71.5
		F2.6	64.0	63.0	66.5
		F2.7	61.0	56.0	62
<b>H2</b>	4720_acetat_1zu2	H2.1	85.0	81.0	88.5
		H2.2	75.5	74.0	77.5
		H2.3	70.5	70.0	73.5
		H2.4	66.0	64.5	68
		H2.5	62.0	55.0	64

### **Modified Well Contents**

No wells have been modified.





## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:41 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

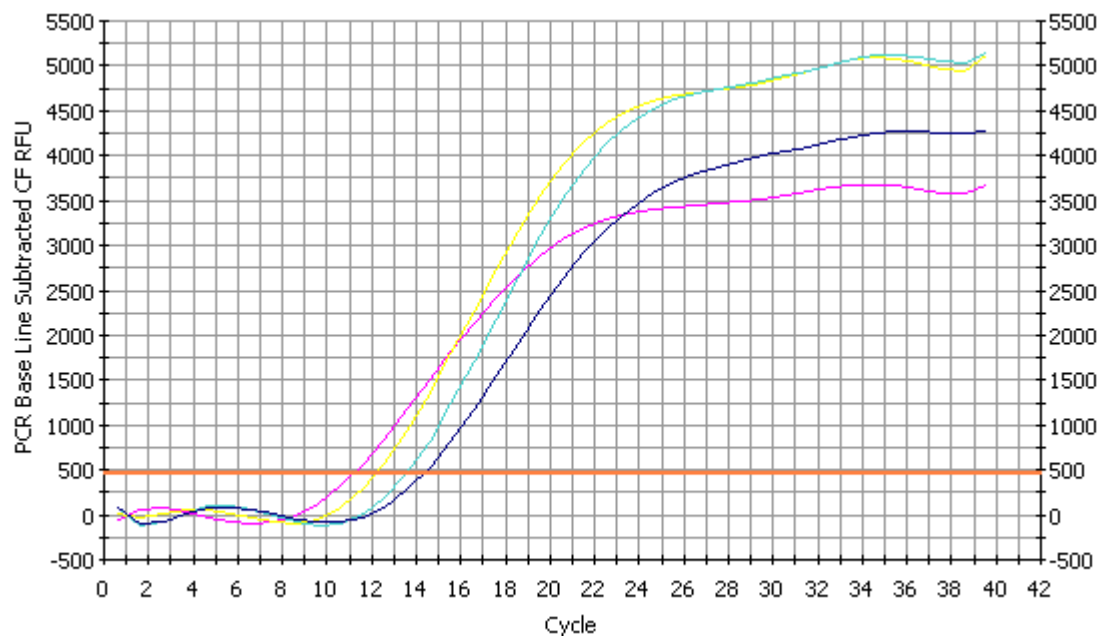
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **452.4**.

Per-well baseline cycles have been determined automatically.

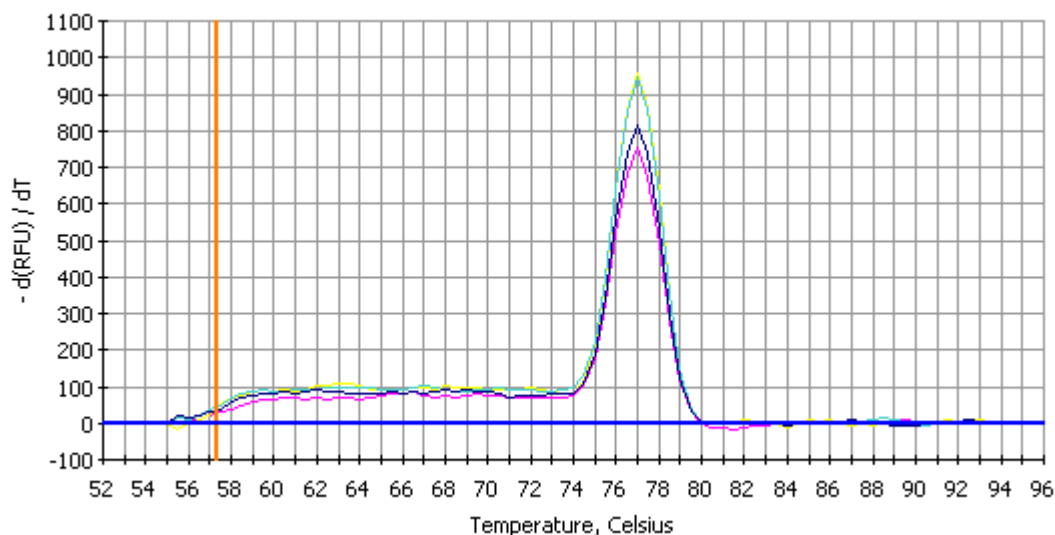
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B04	2842_methanol_1zu1	12.1	
D04	2842_methanol_1zu2	13.0	
F04	2842_acetat_1zu1	14.3	
H04	2842_acetat_1zu2	15.2	

### 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**

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B4</b>	2842_methanol_1zu1	B4.1	77.0	74.0	80
		B4.2	69.5	68.5	73.5
		B4.3	66.5	64.5	67.5
		B4.4	62.0	61.5	64
		B4.5	60.5	55.0	61.5
<b>D4</b>	2842_methanol_1zu2	D4.1	77.0	74.0	80
		D4.2	72.0	71.0	73.5
		D4.3	68.0	67.5	70
		D4.4	66.5	66.0	67.5
		D4.5	63.0	55.5	66
<b>F4</b>	2842_acetat_1zu1	F4.1	77.0	73.5	81
		F4.2	70.5	69.0	73
		F4.3	67.0	65.5	68.5
		F4.4	64.0	63.5	65
		F4.5	63.0	55.0	63.5
<b>H4</b>	2842_acetat_1zu2	H4.1	77.0	72.0	81.5
		H4.2	69.0	66.0	71
		H4.3	62.0	55.0	64.5

### **Modified Well Contents**

No wells have been modified.





## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:39 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

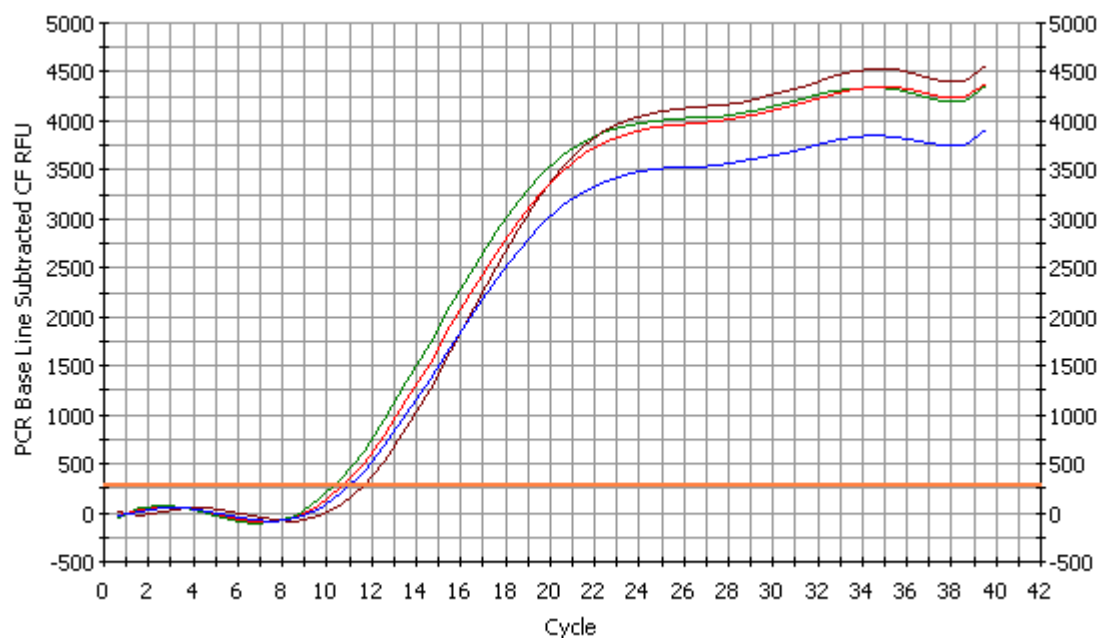
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **maximum curvature approach** is **275.7**.

Per-well baseline cycles have been determined automatically.

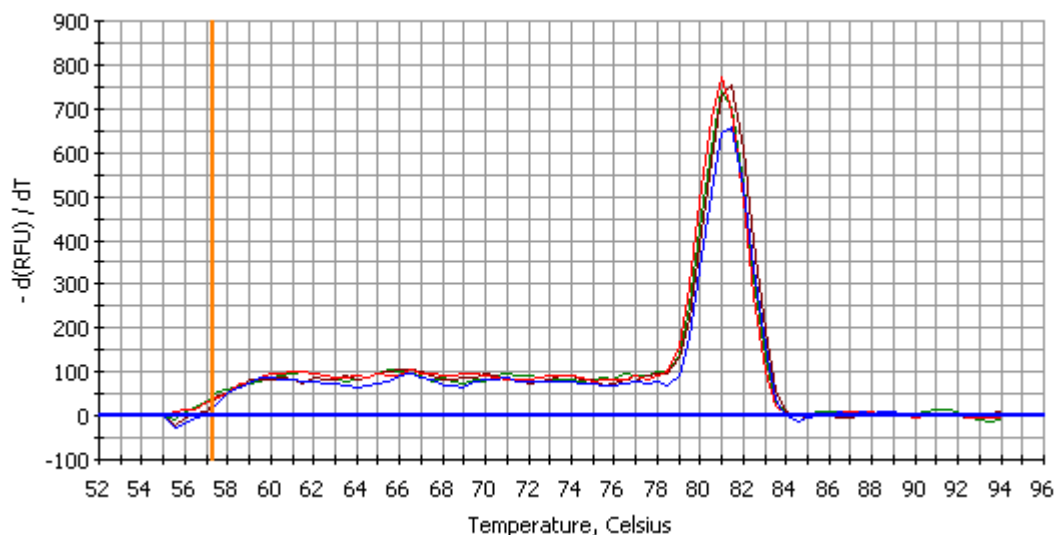
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
B01	4019_methanol_1zu1	11.9	
D01	4019_methanol_1zu2	13.2	
F01	4019_acetat_1zu1	12.3	
H01	4019_acetat_1zu2	12.7	

### 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**

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
<b>B1</b>	4019_methanol_1zu1	B1.1	81.0	78.5	85
		B1.2	76.5	75.0	77.5
		B1.3	71.0	70.0	74.5
		B1.4	65.5	64.0	69
		B1.5	61.5	55.5	63.5
<b>D1</b>	4019_methanol_1zu2	D1.1	81.5	76.0	85
		D1.2	74.0	72.5	75.5
		D1.3	70.0	69.0	72
		D1.4	66.5	61.5	68.5
		D1.5	60.5	56.0	61.5
<b>F1</b>	4019_acetat_1zu1	F1.1	81.0	76.0	85.5
		F1.2	74.0	72.0	75
		F1.3	69.5	69.0	71.5
		F1.4	66.5	66.0	68.5
		F1.5	65.0	64.5	66
<b>H1</b>	4019_acetat_1zu2	F1.6	61.0	55.0	63
		H1.1	81.5	78.5	84.5
		H1.2	72.5	72.0	76
		H1.3	71.0	69.5	71.5
		H1.4	66.5	64.5	69
		H1.5	60.0	56.5	64

### **Modified Well Contents**

No wells have been modified.







## PCR Quantification with Melt Curve Report PCR Base Line Subtracted Curve Fit Data

Current Date: 01-Sep-03 10:44 AM  
Data generated on: 21-May-03 at 03:05 PM.

Optical data file name: mmz\_210503.opd  
Plate Setup file used: ray\_mmz1.pts  
Protocol file used: ray\_mmz1.tmo

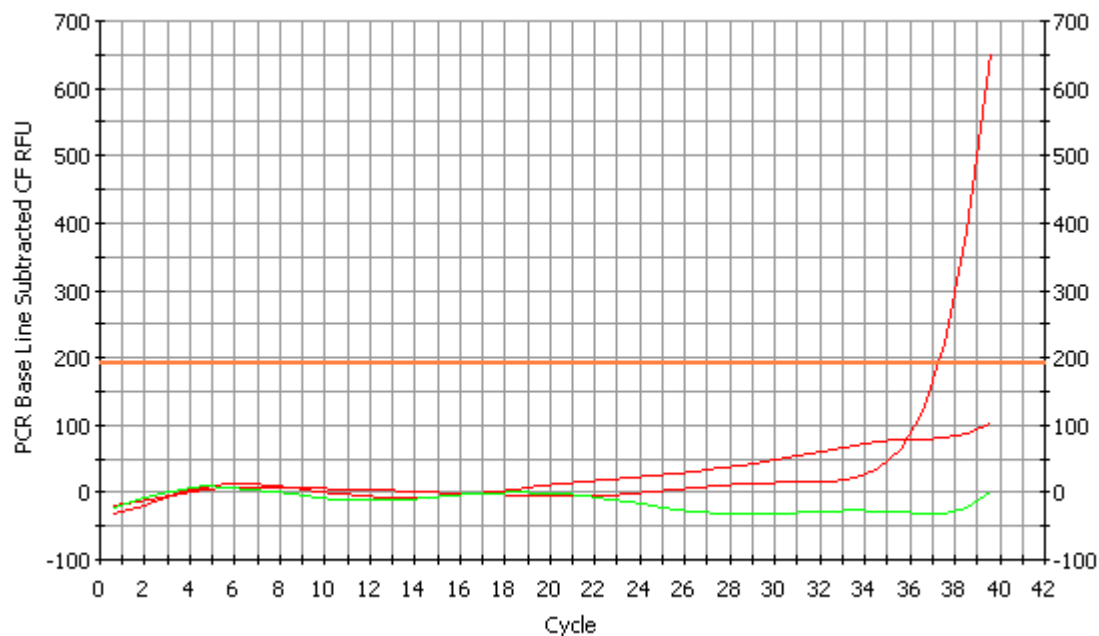
Sample volume: 50.00 ul  
Hot Start? No  
Well factor collection: Experimental Plate

### Comments

### Protocol

Cycle 1: ( 1X)		
Step 1:	50.0°C	for 30:00
Cycle 2: ( 1X)		
Step 1:	95.0°C	for 15:00
Cycle 3: ( 40X)		
Step 1:	94.0°C	for 00:15
Step 2:	55.0°C	for 00:30
Step 3:	72.0°C	for 00:30
Data collection and real-time analysis enabled.		
Cycle 4: ( 1X)		
Step 1:	72.0°C	for 10:00
Cycle 5: ( 1X)		
Step 1:	55.0°C	for 01:00
Cycle 6: ( 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 7: ( 1X)		
Step 1:	4.0°C	HOLD

### PCR Amp/Cycle Graph for SYBR-490



### Data Analysis Parameters

Calculated threshold using the **10X average standard deviation** is **192.3**.

Per-well baseline cycles have been determined automatically.

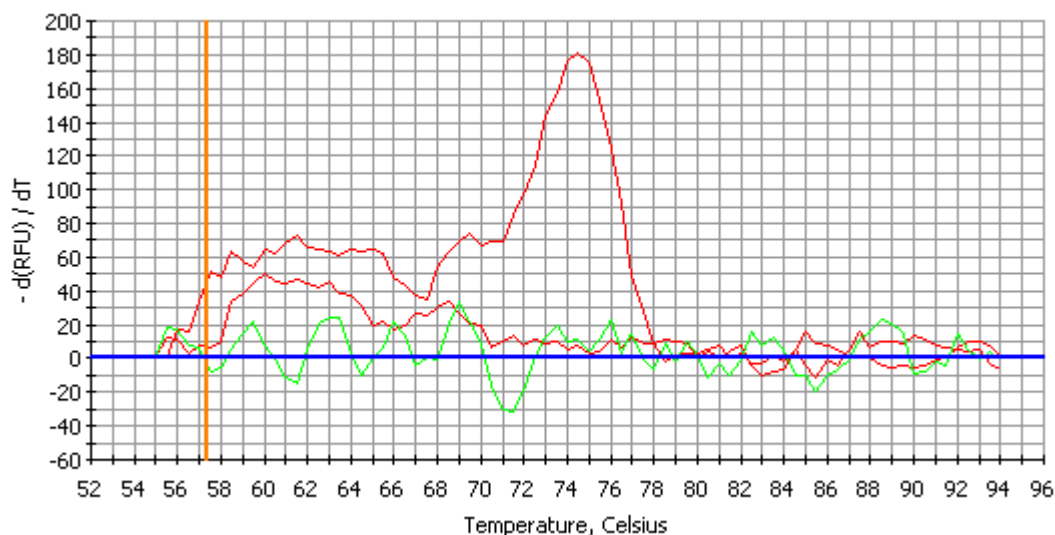
Data analysis window is set at **95.00%** of a cycle, centered at **end** of the cycle.

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

### PCR Quantification Spreadsheet Data for SYBR-490

Well	Identifier	Ct	Setpoint
A01	kein template	37.3	
A11	kein primer methanol	N/A	
A12	kein primer acetat	N/A	

### 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**

Well	Well Identifier Peak Descriptor	Peak ID	Melt Temp	Beg. Temp	End Temp
A1	no template	A1.1	74.5	70.5	78.5
		A1.2	69.5	68.0	70
		A1.3	64.0	63.5	67.5
		A1.4	61.5	60.5	63.5
		A1.5	58.5	55.0	59.5
A11	no primer methanol	A11.1	93.0	91.0	94
		A11.2	85.0	84.0	88.5
		A11.3	77.0	75.0	81
		A11.4	68.5	66.5	70.5
		A11.5	60.0	57.5	66
A12	no primer acetat	A12.1	92.0	91.5	93
		A12.2	88.5	87.0	90
		A12.3	82.5	82.0	84.5
		A12.4	76.0	75.5	77.5
		A12.5	73.5	72.0	75
		A12.6	69.0	68.0	70.5
		A12.7	66.0	65.0	67
		A12.8	63.0	61.5	64.5
		A12.9	59.5	58.0	60.5
		A12.10	55.5	55.0	57.5

### **Modified Well Contents**

No wells have been modified.

