# bcar-k-erg9-24-03-09 Report

Quantitative PCR - DNA Binding Dye Including Standard Melt

Includes: Plate Setup, Thermal Profile, Raw Data Plots, Analysis Criteria, Amplification Plots, Standard Curve Plots, Melt Raw Derivative Curve, Consolidated Plots, Tabular Results, Experiment Notes

Instrument Name: New_Instrument

Firmware Version:: 3.1.1606.1402

Software Version: Agilent Aria Software v2.0

Last Modified Date: 10 Mar 2024 20:04:06

Instrument Type: AriaMx

Serial Number: MY16485260

Run By: Guest

Run Start Date: 10 Mar 2024 18:15:02

Elapsed Time: 1 : 48 : 50

Report Generated: 09 Mar 2024

| Instrument Name: | New_Instrument | Experiment Name: | bcar-k-erg9-24-03-09 |
|---|---|---|---|
| Instrument Type: | AriaMx | Experiment Type: | Quantitative PCR - DNA Binding Dye Including Standard Melt |
| | | Run Date: | 10 Mar 2024 18:15:02 |

## Plate Setup

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | Unknown 1 | Unknown 1 | Unknown 1 | Unknown 7 | Unknown 7 | Unknown 7 | Unknown 13 | Unknown 13 | Unknown 13 | Standard | Standard | Standard |
| B | Unknown 2 | Unknown 2 | Unknown 2 | Unknown 8 | Unknown 8 | Unknown 8 | Unknown 14 | Unknown 14 | Unknown 14 | Standard | Standard | Standard |
| C | Unknown 3 | Unknown 3 | Unknown 3 | Unknown 9 | Unknown 9 | Unknown 9 | Unknown 15 | Unknown 15 | Unknown 15 | Standard | Standard | Standard |
| D | Unknown 4 | Unknown 4 | Unknown 4 | Unknown 10 | Unknown 10 | Unknown 10 | Unknown 16 | Unknown 16 | Unknown 16 | Standard | Standard | Standard |
| E | Unknown 5 | Unknown 5 | Unknown 5 | Unknown 11 | Unknown 11 | Unknown 11 | Unknown 17 | Unknown 17 | Unknown 17 | Standard | Standard | Standard |
| F | Unknown 6 | Unknown 6 | Unknown 6 | Unknown 12 | Unknown 12 | Unknown 12 | Unknown 18 | Unknown 18 | Unknown 18 | Standard | Standard | Standard |
| G | No RT | No RT | No RT | No RT | No RT | No RT | No RT | No RT | No RT | Standard | Standard | Standard |
| H | No RT | No RT | No RT | No RT | No RT | No RT | No RT | No RT | No RT | NTC | NTC | NTC |

gets: ⬤ ERG9

Instrument Name:   New_Instrument
Instrument Type:   AriaMx

Experiment Name:   bcar-k-erg9-24-03-09
Experiment Type:   Quantitative PCR - DNA Binding Dye Including Standard Melt
Run Date:          10 Mar 2024 18:15:02

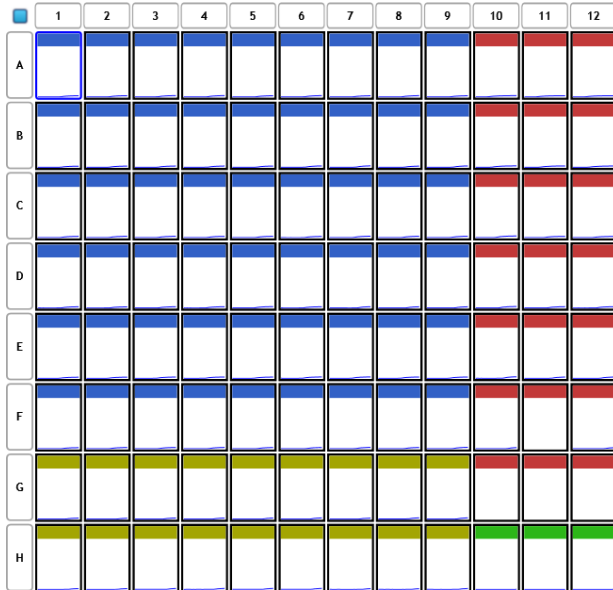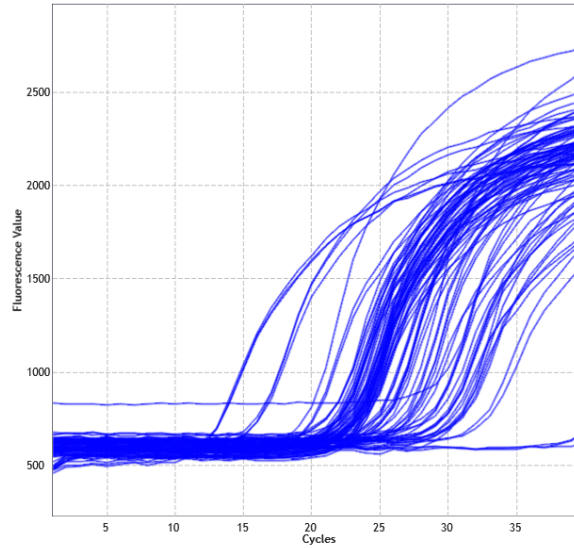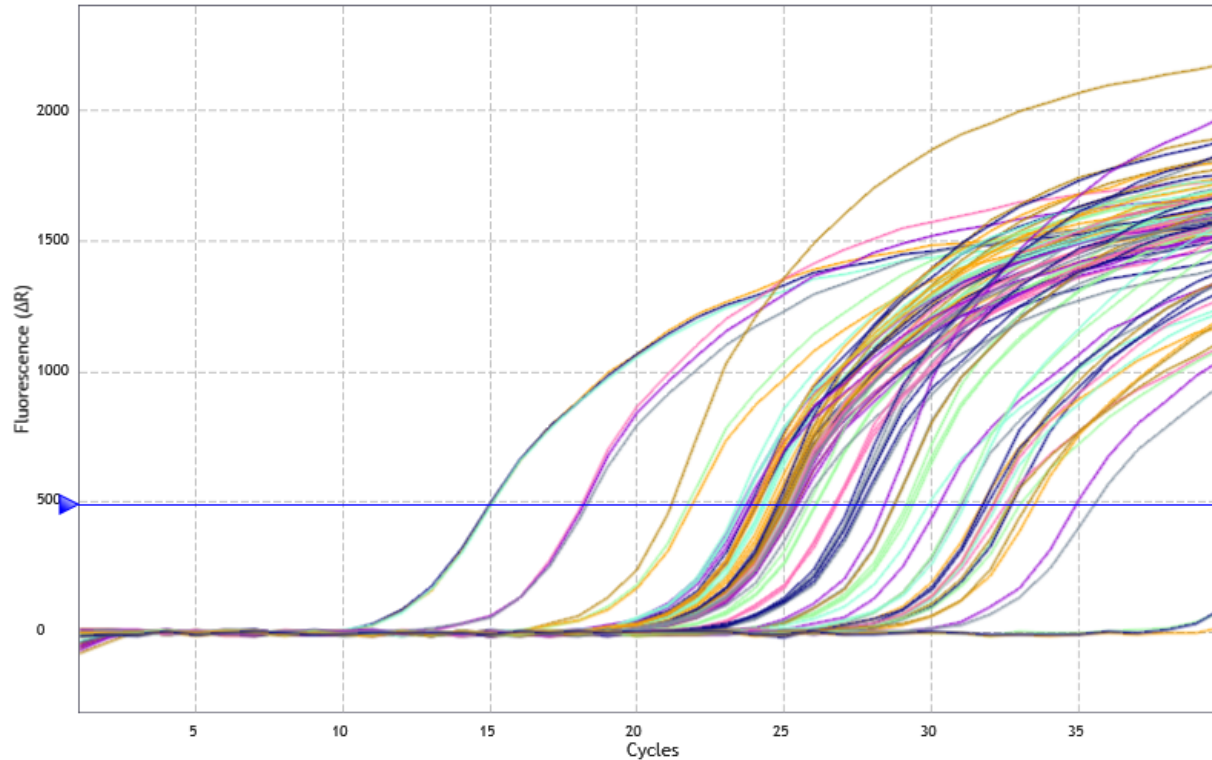## Thermal Profile

**Estimated Runtime:  N/A**

Total Data Collection Points: 121/2700
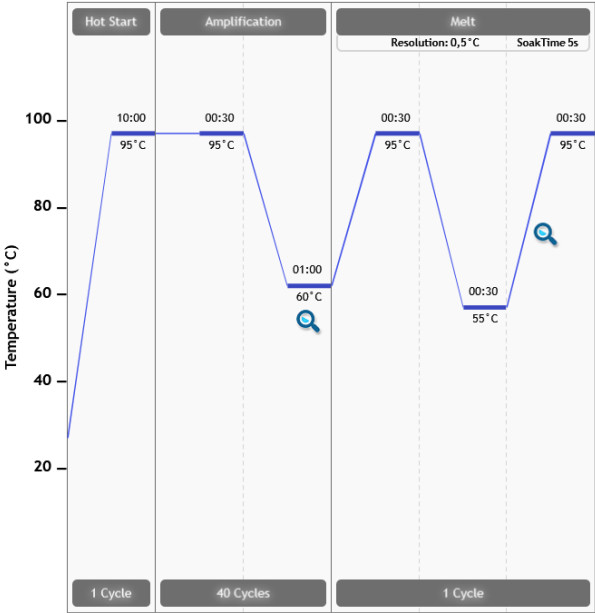
## Raw Data Plots

| | | |
|---|---|---|
| Instrument Name: | New_Instrument | |
| Instrument Type: | AriaMx | |

| | |
|---|---|
| Experiment Name: | bcar-k-erg9-24-03-09 |
| Experiment Type: | Quantitative PCR - DNA Binding Dye Including Standard Melt |
| Run Date: | 10 Mar 2024 18:15:02 |

## Analysis Criteria

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | Unknown 1 | Unknown 1 | Unknown 1 | Unknown 7 | Unknown 7 | Unknown 7 | Unknown 13 | Unknown 13 | Unknown 13 | Standard | Standard | Standard |
| B | Unknown 2 | Unknown 2 | Unknown 2 | Unknown 8 | Unknown 8 | Unknown 8 | Unknown 14 | Unknown 14 | Unknown 14 | Standard | Standard | Standard |
| C | Unknown 3 | Unknown 3 | Unknown 3 | Unknown 9 | Unknown 9 | Unknown 9 | Unknown 15 | Unknown 15 | Unknown 15 | Standard | Standard | Standard |
| D | Unknown 4 | Unknown 4 | Unknown 4 | Unknown 10 | Unknown 10 | Unknown 10 | Unknown 16 | Unknown 16 | Unknown 16 | Standard | Standard | Standard |
| E | Unknown 5 | Unknown 5 | Unknown 5 | Unknown 11 | Unknown 11 | Unknown 11 | Unknown 17 | Unknown 17 | Unknown 17 | Standard | Standard | Standard |
| F | Unknown 6 | Unknown 6 | Unknown 6 | Unknown 12 | Unknown 12 | Unknown 12 | Unknown 18 | Unknown 18 | Unknown 18 | Standard | Standard | Standard |
| G | No RT | No RT | No RT | No RT | No RT | No RT | No RT | No RT | No RT | Standard | Standard | Standard |
| H | No RT | No RT | No RT | No RT | No RT | No RT | No RT | No RT | No RT | NTC | NTC | NTC |

gets: ⬤ ERG9

## Amplification Plots



Threshold settings based on background: Start cycle = 5, End cycle = 9,
Sigma multiplier = 10, Baseline correction = Adaptive, Smoothing = Off,
Crosstalk Correction: -

## Standard Curve Plots



Confidence Level = 95
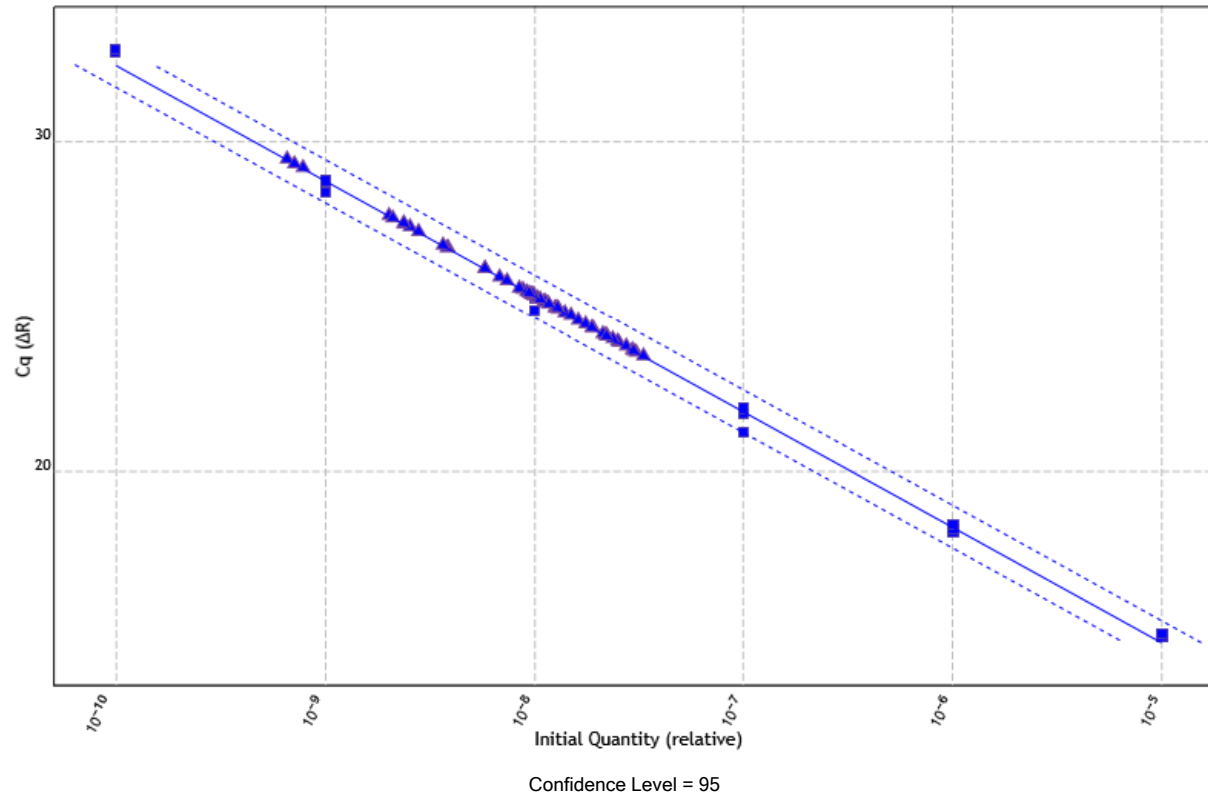
## Melt Raw Derivative Curve
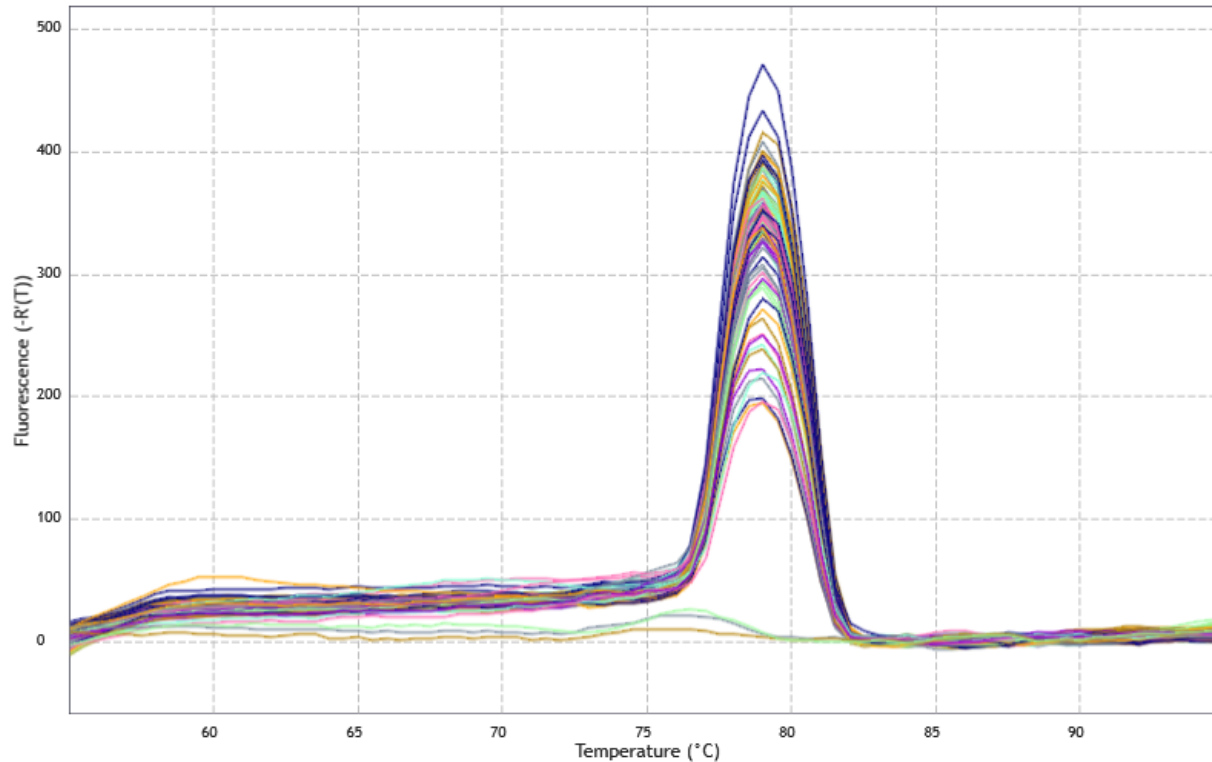


Savitzky-Golay = On, Points = 9, Normalization = Off, Temperature range : Lower = 55, Upper = 55,1,
Product melting temperature : Max number = 4, Min peak height = Off

## Graphical Displays



**Amplification Plots**

**Standard Curve**

**Melt Curve - Raw/Derivative Curve**

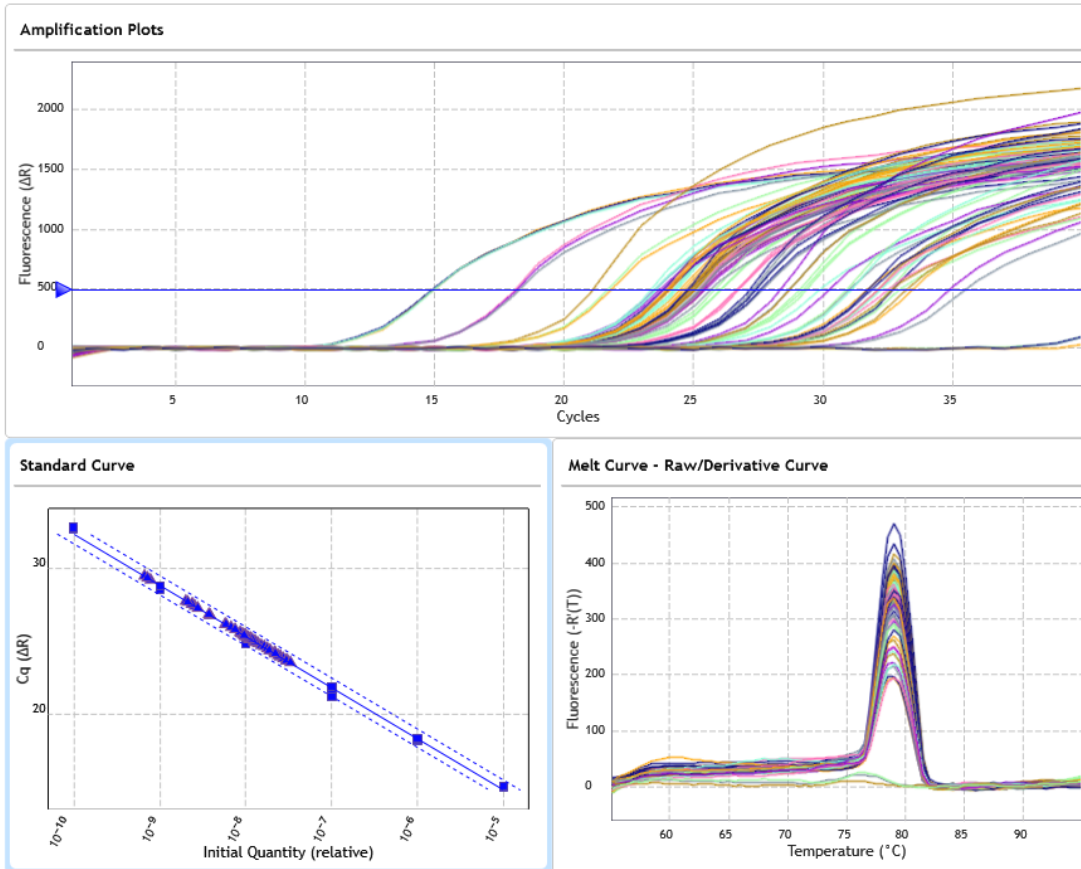| Instrument Name: | New_Instrument | | Experiment Name: | bcar-k-erg9-24-03-09 |
|---|---|---|---|---|
| Instrument Type: | AriaMx | | Experiment Type: | Quantitative PCR - DNA Binding Dye Including Standard Melt |
| | | | Run Date: | 10 Mar 2024 18:15:02 |

## Tabular Results (1 of 8)

| Target | Dye | Threshold | R² | Slope | Efficiency |
|---|---|---|---|---|---|
| ERG9 | SYBR | 500 | 0,998 | -3,506 | 92,85 |

| Well | Well Type | Well Name | Target | Replicate | R Last | ΔR Last | RLast/ RFirst | Threshold (ΔR) | Baseline Start Cycle | Baseline End Cycle | Cq (ΔR) | Final Call (ΔR) | Quantity (relative) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A1 | Unknown | 2A1 | ERG9 | 1 | 2110 | 1552,135 | 4,050 | 500,000 | 4 | 19 | 24,80 | + | 1,39e-008 |
| A2 | Unknown | 2A1 | ERG9 | 1 | 2144 | 1583,282 | 4,305 | 500,000 | 4 | 19 | 24,70 | + | 1,48e-008 |
| A3 | Unknown | 2A1 | ERG9 | 1 | 2248 | 1675,567 | 4,496 | 500,000 | 5 | 19 | 24,57 | + | 1,61e-008 |
| A4 | Unknown | 2A2 | ERG9 | 7 | 2241 | 1690,163 | 4,602 | 500,000 | 4 | 19 | 25,31 | + | 9,96e-009 |
| A5 | Unknown | 2A2 | ERG9 | 7 | 2071 | 1528,100 | 4,261 | 500,000 | 4 | 19 | 25,50 | + | 8,75e-009 |
| A6 | Unknown | 2A2 | ERG9 | 7 | 2228 | 1673,481 | 4,622 | 500,000 | 4 | 19 | 25,32 | + | 9,88e-009 |
| A7 | Unknown | 2A3 | ERG9 | 13 | 2042 | 1527,380 | 4,210 | 500,000 | 3 | 19 | 25,56 | + | 8,46e-009 |
| A8 | Unknown | 2A3 | ERG9 | 13 | 2169 | 1639,380 | 4,445 | 500,000 | 3 | 19 | 25,35 | + | 9,68e-009 |
| A9 | Unknown | 2A3 | ERG9 | 13 | 2065 | 1527,735 | 4,114 | 500,000 | 3 | 19 | 25,44 | + | 9,15e-009 |
| A10 | Standard | ST-5 | ERG9 | --- | 2189 | 1589,679 | 4,541 | 500,000 | 2 | 9 | 15,01 | + | 1,00e-005 |
| A11 | Standard | ST-5 | ERG9 | --- | 2139 | 1570,095 | 4,640 | 500,000 | 3 | 8 | 14,98 | + | 1,00e-005 |
| A12 | Standard | ST-5 | ERG9 | --- | 2126 | 1531,000 | 4,466 | 500,000 | 3 | 9 | 15,05 | + | 1,00e-005 |
| B1 | Unknown | 2B1 | ERG9 | 2 | 2025 | 1435,490 | 3,546 | 500,000 | 3 | 19 | 25,09 | + | 1,15e-008 |
| B2 | Unknown | 2B1 | ERG9 | 2 | 2131 | 1506,034 | 3,600 | 500,000 | 3 | 19 | 24,95 | + | 1,26e-008 |
| B3 | Unknown | 2B1 | ERG9 | 2 | 2210 | 1588,900 | 3,746 | 500,000 | 3 | 19 | 24,90 | + | 1,30e-008 |
| B4 | Unknown | 2B2 | ERG9 | 8 | 2213 | 1551,633 | 3,507 | 500,000 | 2 | 20 | 26,14 | + | 5,75e-009 |
| B5 | Unknown | 2B2 | ERG9 | 8 | 2175 | 1548,365 | 3,625 | 500,000 | 2 | 20 | 26,13 | + | 5,80e-009 |
| B6 | Unknown | 2B2 | ERG9 | 8 | 2332 | 1698,281 | 3,780 | 500,000 | 2 | 20 | 25,89 | + | 6,79e-009 |
| B7 | Unknown | 2B3 | ERG9 | 14 | 2413 | 1815,724 | 4,022 | 500,000 | 4 | 21 | 27,39 | + | 2,54e-009 |
| B8 | Unknown | 2B3 | ERG9 | 14 | 2110 | 1525,771 | 3,552 | 500,000 | 2 | 21 | 27,75 | + | 2,00e-009 |
| B9 | Unknown | 2B3 | ERG9 | 14 | 2339 | 1714,214 | 3,803 | 500,000 | 2 | 22 | 27,49 | + | 2,38e-009 |

## Tabular Results (2 of 8)

| Quantity Avg. (relative) | Quantity SD (relative) | R² (ΔR) | Slope (ΔR) | Efficiency (%) | Melt Smoothing # | Melt Norm. | Tm Product 1 (-R'(T)) |
|---|---|---|---|---|---|---|---|
| 1,50e-008 | 1,13e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,50e-008 | 1,13e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,50e-008 | 1,13e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 9,53e-009 | 6,74e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 9,53e-009 | 6,74e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 9,53e-009 | 6,74e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 9,10e-009 | 6,14e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 9,10e-009 | 6,14e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 9,10e-009 | 6,14e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-005 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-005 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-005 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,24e-008 | 7,86e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,24e-008 | 7,86e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,24e-008 | 7,86e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 6,11e-009 | 5,85e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 6,11e-009 | 5,85e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 6,11e-009 | 5,85e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,31e-009 | 2,74e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,31e-009 | 2,74e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,31e-009 | 2,74e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-006 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-006 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-006 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |

## Tabular Results (3 of 8)

| Well | Well Type | Well Name | Target | Replicate | R Last | ΔR Last | RLast/ RFirst | Threshold (ΔR) | Baseline Start Cycle | Baseline End Cycle | Cq (ΔR) | Final Call (ΔR) | Quantity (relative) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C1 | Unknown | 3A1 | ERG9 | 3 | 2249 | 1665,164 | 3,905 | 500,000 | 3 | 19 | 24,45 | + | 1,75e-008 |
| C2 | Unknown | 3A1 | ERG9 | 3 | 2320 | 1735,358 | 3,979 | 500,000 | 3 | 19 | 24,33 | + | 1,90e-008 |
| C3 | Unknown | 3A1 | ERG9 | 3 | 2307 | 1708,071 | 3,858 | 500,000 | 4 | 19 | 24,35 | + | 1,86e-008 |
| C4 | Unknown | 3A2 | ERG9 | 9 | 2226 | 1642,397 | 3,851 | 500,000 | 3 | 18 | 25,13 | + | 1,12e-008 |
| C5 | Unknown | 3A2 | ERG9 | 9 | 2303 | 1746,580 | 3,971 | 500,000 | 2 | 19 | 24,95 | + | 1,26e-008 |
| C6 | Unknown | 3A2 | ERG9 | 9 | 2155 | 1629,819 | 3,841 | 500,000 | 2 | 19 | 25,14 | + | 1,11e-008 |
| C7 | Unknown | 3A3 | ERG9 | 15 | 2457 | 1900,951 | 4,143 | 500,000 | 3 | 19 | 24,93 | + | 1,28e-008 |
| C8 | Unknown | 3A3 | ERG9 | 15 | 2330 | 1779,354 | 3,936 | 500,000 | 2 | 19 | 25,12 | + | 1,13e-008 |
| C9 | Unknown | 3A3 | ERG9 | 15 | 2376 | 1828,553 | 4,062 | 500,000 | 2 | 19 | 25,06 | + | 1,17e-008 |
| C10 | Standard | ST-7 | ERG9 | --- | 2751 | 2184,361 | 4,751 | 500,000 | 2 | 16 | 21,20 | + | 1,00e-007 |
| C11 | Standard | ST-7 | ERG9 | --- | 2233 | 1681,903 | 4,009 | 500,000 | 3 | 16 | 21,76 | + | 1,00e-007 |
| C12 | Standard | ST-7 | ERG9 | --- | 2158 | 1599,626 | 3,895 | 500,000 | 3 | 16 | 21,90 | + | 1,00e-007 |
| D1 | Unknown | 3B1 | ERG9 | 4 | 2198 | 1612,787 | 3,700 | 500,000 | 2 | 19 | 25,26 | + | 1,03e-008 |
| D2 | Unknown | 3B1 | ERG9 | 4 | 2144 | 1546,309 | 3,697 | 500,000 | 3 | 19 | 25,35 | + | 9,66e-009 |
| D3 | Unknown | 3B1 | ERG9 | 4 | 2236 | 1611,040 | 3,601 | 500,000 | 2 | 19 | 25,21 | + | 1,06e-008 |
| D4 | Unknown | 3B2 | ERG9 | 10 | 2239 | 1639,794 | 3,713 | 500,000 | 2 | 18 | 24,10 | + | 2,20e-008 |
| D5 | Unknown | 3B2 | ERG9 | 10 | 2372 | 1759,019 | 3,801 | 500,000 | 3 | 18 | 23,89 | + | 2,52e-008 |
| D6 | Unknown | 3B2 | ERG9 | 10 | 2198 | 1609,321 | 3,615 | 500,000 | 3 | 18 | 24,11 | + | 2,18e-008 |
| D7 | Unknown | 3B3 | ERG9 | 16 | 2289 | 1696,933 | 3,674 | 500,000 | 3 | 24 | 29,18 | + | 7,82e-010 |
| D8 | Unknown | 3B3 | ERG9 | 16 | 2175 | 1576,840 | 3,447 | 500,000 | 2 | 24 | 29,44 | + | 6,60e-010 |
| D9 | Unknown | 3B3 | ERG9 | 16 | 2184 | 1568,727 | 3,391 | 500,000 | 2 | 23 | 29,32 | + | 7,15e-010 |
| D10 | Standard | ST-8 | ERG9 | --- | 2518 | 1890,275 | 3,941 | 500,000 | 2 | 19 | 24,83 | + | 1,00e-008 |
| D11 | Standard | ST-8 | ERG9 | --- | 2294 | 1629,439 | 3,444 | 500,000 | 3 | 19 | 25,22 | + | 1,00e-008 |
| D12 | Standard | ST-8 | ERG9 | --- | 2289 | 1685,056 | 3,854 | 500,000 | 3 | 19 | 25,29 | + | 1,00e-008 |

## Tabular Results (4 of 8)

| Quantity Avg. (relative) | Quantity SD (relative) | R² (ΔR) | Slope (ΔR) | Efficiency (%) | Melt Smoothing # | Melt Norm. | Tm Product 1 (-R'(T)) |
|---|---|---|---|---|---|---|---|
| 1,84e-008 | 7,42e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,84e-008 | 7,42e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,84e-008 | 7,42e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,16e-008 | 8,36e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,16e-008 | 8,36e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,16e-008 | 8,36e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,19e-008 | 7,60e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,19e-008 | 7,60e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,19e-008 | 7,60e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-007 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-007 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-007 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,02e-008 | 4,97e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,02e-008 | 4,97e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,02e-008 | 4,97e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,30e-008 | 1,90e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,30e-008 | 1,90e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,30e-008 | 1,90e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 7,19e-010 | 6,14e-011 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 7,19e-010 | 6,14e-011 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 7,19e-010 | 6,14e-011 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-008 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-008 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-008 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |

| Well | Well Type | Well Name | Target | Replicate | R Last | ΔR Last | RLast/ RFirst | Threshold (ΔR) | Baseline Start Cycle | Baseline End Cycle | Cq (ΔR) | Final Call (ΔR) | Quantity (relative) |
|------|-----------|-----------|--------|-----------|--------|---------|---------------|----------------|----------------------|--------------------|---------|-----------------|----------------------|
| E1 | Unknown | 4A1 | ERG9 | 5 | 2057 | 1483,551 | 3,621 | 500,000 | 3 | 18 | 23,92 | + | 2,48e-008 |
| E2 | Unknown | 4A1 | ERG9 | 5 | 2113 | 1526,172 | 3,675 | 500,000 | 3 | 18 | 23,77 | + | 2,72e-008 |
| E3 | Unknown | 4A1 | ERG9 | 5 | 2249 | 1600,908 | 3,564 | 500,000 | 4 | 18 | 23,61 | + | 3,04e-008 |
| E4 | Unknown | 4A2 | ERG9 | 11 | 2289 | 1623,985 | 3,549 | 500,000 | 2 | 18 | 23,67 | + | 2,93e-008 |
| E5 | Unknown | 4A2 | ERG9 | 11 | 2213 | 1606,424 | 3,658 | 500,000 | 3 | 17 | 23,64 | + | 2,98e-008 |
| E6 | Unknown | 4A2 | ERG9 | 11 | 2374 | 1731,593 | 3,652 | 500,000 | 3 | 18 | 23,48 | + | 3,30e-008 |
| E7 | Unknown | 4A3 | ERG9 | 17 | 2418 | 1808,496 | 3,906 | 500,000 | 4 | 18 | 24,00 | + | 2,35e-008 |
| E8 | Unknown | 4A3 | ERG9 | 17 | 2300 | 1692,821 | 3,628 | 500,000 | 4 | 18 | 24,16 | + | 2,11e-008 |
| E9 | Unknown | 4A3 | ERG9 | 17 | 2322 | 1731,794 | 3,763 | 500,000 | 2 | 18 | 24,09 | + | 2,21e-008 |
| E10 | Standard | ST-9 | ERG9 | --- | 2626 | 1982,166 | 4,084 | 500,000 | 2 | 23 | 28,48 | + | 1,00e-009 |
| E11 | Standard | ST-9 | ERG9 | --- | 2252 | 1622,672 | 3,698 | 500,000 | 3 | 23 | 28,78 | + | 1,00e-009 |
| E12 | Standard | ST-9 | ERG9 | --- | 2258 | 1642,669 | 3,880 | 500,000 | 3 | 23 | 28,80 | + | 1,00e-009 |
| F1 | Unknown | 4A2 | ERG9 | 6 | 1970 | 1407,113 | 3,608 | 500,000 | 3 | 19 | 25,76 | + | 7,38e-009 |
| F2 | Unknown | 4A2 | ERG9 | 6 | 2191 | 1600,725 | 3,871 | 500,000 | 4 | 19 | 25,34 | + | 9,73e-009 |
| F3 | Unknown | 4A2 | ERG9 | 6 | 2196 | 1571,138 | 3,697 | 500,000 | 4 | 19 | 25,39 | + | 9,45e-009 |
| F4 | Unknown | 4B2 | ERG9 | 12 | 2257 | 1632,657 | 3,806 | 500,000 | 2 | 21 | 26,76 | + | 3,85e-009 |
| F5 | Unknown | 4B2 | ERG9 | 12 | 2146 | 1549,130 | 3,694 | 500,000 | 3 | 21 | 26,77 | + | 3,82e-009 |
| F6 | Unknown | 4B2 | ERG9 | 12 | 2169 | 1555,471 | 3,493 | 500,000 | 5 | 21 | 26,83 | + | 3,66e-009 |
| F7 | Unknown | 4B3 | ERG9 | 18 | 2312 | 1672,956 | 3,562 | 500,000 | 5 | 21 | 27,50 | + | 2,36e-009 |
| F8 | Unknown | 4B3 | ERG9 | 18 | 2196 | 1586,250 | 3,514 | 500,000 | 4 | 21 | 27,67 | + | 2,11e-009 |
| F9 | Unknown | 4B3 | ERG9 | 18 | 2423 | 1838,901 | 4,086 | 500,000 | 2 | 22 | 27,25 | + | 2,79e-009 |
| F10 | Standard | ST-10 | ERG9 | --- | 2101 | 1494,753 | 3,525 | 500,000 | 2 | 27 | 32,69 | + | 1,00e-010 |
| F12 | Standard | ST-10 | ERG9 | --- | 1951 | 1361,032 | 3,515 | 500,000 | 5 | 26 | 32,80 | + | 1,00e-010 |
| G1 | No RT | 2A1 | ERG9 | --- | 1890 | 1250,456 | 3,063 | 500,000 | 3 | 23 | 29,94 | + | 4,75e-010 |

Instrument Name: New_Instrument
Instrument Type: AriaMx

Experiment Name: bcar-k-erg9-24-03-09
Experiment Type: Quantitative PCR - DNA Binding Dye Including Standard Melt
Run Date: 10 Mar 2024 18:15:02

## Tabular Results (6 of 8)

| Quantity Avg. (relative) | Quantity SD (relative) | R² (ΔR) | Slope (ΔR) | Efficiency (%) | Melt Smoothing # | Melt Norm. | Tm Product 1 (-R'(T)) |
|---|---|---|---|---|---|---|---|
| 2,75e-008 | 2,84e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,75e-008 | 2,84e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,75e-008 | 2,84e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 3,07e-008 | 2,02e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 3,07e-008 | 2,02e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 3,07e-008 | 2,02e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,23e-008 | 1,21e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,23e-008 | 1,21e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,23e-008 | 1,21e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-009 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-009 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-009 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 8,86e-009 | 1,28e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 8,86e-009 | 1,28e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 8,86e-009 | 1,28e-009 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 3,78e-009 | 9,75e-011 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 3,78e-009 | 9,75e-011 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 3,78e-009 | 9,75e-011 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,42e-009 | 3,42e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,42e-009 | 3,42e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,42e-009 | 3,42e-010 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-010 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,00e-010 | 0,00e+000 | 0,998 | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 4,75e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |

| | Instrument Name: | New_Instrument | | | Experiment Name: | bcar-k-erg9-24-03-09 |
| | Instrument Type: | AriaMx | | | Experiment Type: | Quantitative PCR - DNA Binding Dye Including Standard Melt |
| | | | | | Run Date: | 10 Mar 2024 18:15:02 |

## Tabular Results (7 of 8)

| Well | Well Type | Well Name | Target | Replicate | R Last | ΔR Last | RLast/ RFirst | Threshold (ΔR) | Baseline Start Cycle | Baseline End Cycle | Cq (ΔR) | Final Call (ΔR) | Quantity (relative) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G2 | No RT | 3A1 | ERG9 | --- | 1722 | 1103,366 | 2,889 | 500,000 | 4 | 26 | 32,61 | + | 8,21e-011 |
| G3 | No RT | 4A1 | ERG9 | --- | 2013 | 1358,521 | 3,180 | 500,000 | 2 | 24 | 30,31 | + | 3,72e-010 |
| G4 | No RT | 2A2 | ERG9 | --- | 1985 | 1342,918 | 3,141 | 500,000 | 2 | 25 | 31,07 | + | 2,26e-010 |
| G5 | No RT | 3A2 | ERG9 | --- | 2002 | 1358,331 | 3,148 | 500,000 | 3 | 26 | 32,16 | + | 1,10e-010 |
| G6 | No RT | 4A2 | ERG9 | --- | 2150 | 1498,974 | 3,298 | 500,000 | 3 | 25 | 30,98 | + | 2,40e-010 |
| G7 | No RT | 2A3 | ERG9 | --- | 1841 | 1176,226 | 2,715 | 500,000 | 4 | 25 | 31,79 | + | 1,41e-010 |
| G8 | No RT | 3A3 | ERG9 | --- | 2246 | 1393,140 | 2,690 | 500,000 | 2 | 26 | 31,82 | + | 1,38e-010 |
| G9 | No RT | 4A3 | ERG9 | --- | 2240 | 1573,935 | 3,353 | 500,000 | 2 | 25 | 31,19 | + | 2,09e-010 |
| H1 | No RT | 2B1 | ERG9 | --- | 1752 | 1128,221 | 2,891 | 500,000 | 3 | 26 | 32,76 | + | 7,44e-011 |
| H2 | No RT | 3B1 | ERG9 | --- | 1703 | 1094,788 | 2,877 | 500,000 | 4 | 26 | 33,06 | + | 6,10e-011 |
| H3 | No RT | 4B1 | ERG9 | --- | 1860 | 1216,648 | 2,957 | 500,000 | 2 | 27 | 33,57 | + | 4,37e-011 |
| H4 | No RT | 2B2 | ERG9 | --- | 1953 | 1314,226 | 3,140 | 500,000 | 3 | 26 | 31,94 | + | 1,27e-010 |
| H5 | No RT | 3B2 | ERG9 | --- | 1887 | 1235,920 | 2,935 | 500,000 | 2 | 26 | 32,32 | + | 9,95e-011 |
| H6 | No RT | 4B2 | ERG9 | --- | 1932 | 1287,120 | 2,963 | 500,000 | 3 | 26 | 32,19 | + | 1,09e-010 |
| H7 | No RT | 2B3 | ERG9 | --- | 1680 | 1053,507 | 2,642 | 500,000 | 4 | 29 | 34,94 | + | 1,78e-011 |
| H8 | No RT | 3B3 | ERG9 | --- | 1591 | 959,219 | 2,494 | 500,000 | 4 | 29 | 35,59 | + | 1,16e-011 |
| H9 | No RT | 4B3 | ERG9 | --- | 1833 | 1201,839 | 2,896 | 500,000 | 2 | 27 | 33,35 | + | 5,05e-011 |
| H10 | NTC | NTC | ERG9 | --- | 689 | 89,418 | 1,178 | 500,000 | 3 | 30 | No Cq | - | No Cq |
| H11 | NTC | NTC | ERG9 | --- | 630 | 26,353 | 1,075 | 500,000 | 4 | 40 | No Cq | - | No Cq |
| H12 | NTC | NTC | ERG9 | --- | 696 | 97,457 | 1,225 | 500,000 | 3 | 32 | No Cq | - | No Cq |

## Tabular Results (8 of 8)

| Quantity Avg. (relative) | Quantity SD (relative) | R² (ΔR) | Slope (ΔR) | Efficiency (%) | Melt Smoothing # | Melt Norm. | Tm Product 1 (-R'(T)) |
|---|---|---|---|---|---|---|---|
| 8,21e-011 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 3,72e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,26e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,10e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,40e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,41e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,38e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 2,09e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 7,44e-011 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 6,10e-011 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 4,37e-011 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,27e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 9,95e-011 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,09e-010 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,78e-011 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 1,16e-011 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| 5,05e-011 | N/A | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| No Cq | No Cq | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| No Cq | No Cq | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |
| No Cq | No Cq | No Cq for ERG9 Standards | No Cq for ERG9 Standards | No Cq for ERG9 Standards | 9 | Off | No Tm |

## Experiment Notes

< no experiment notes >