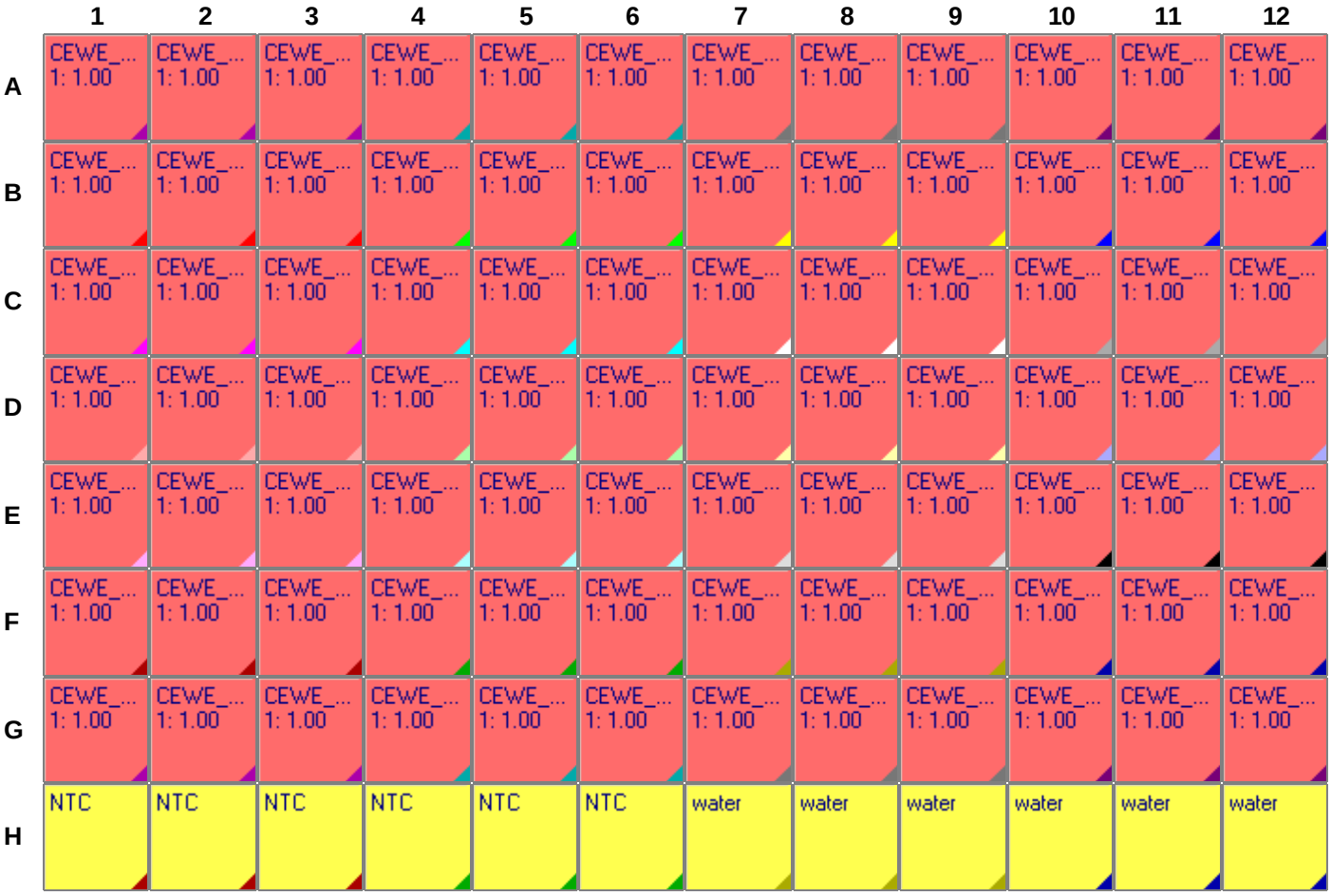
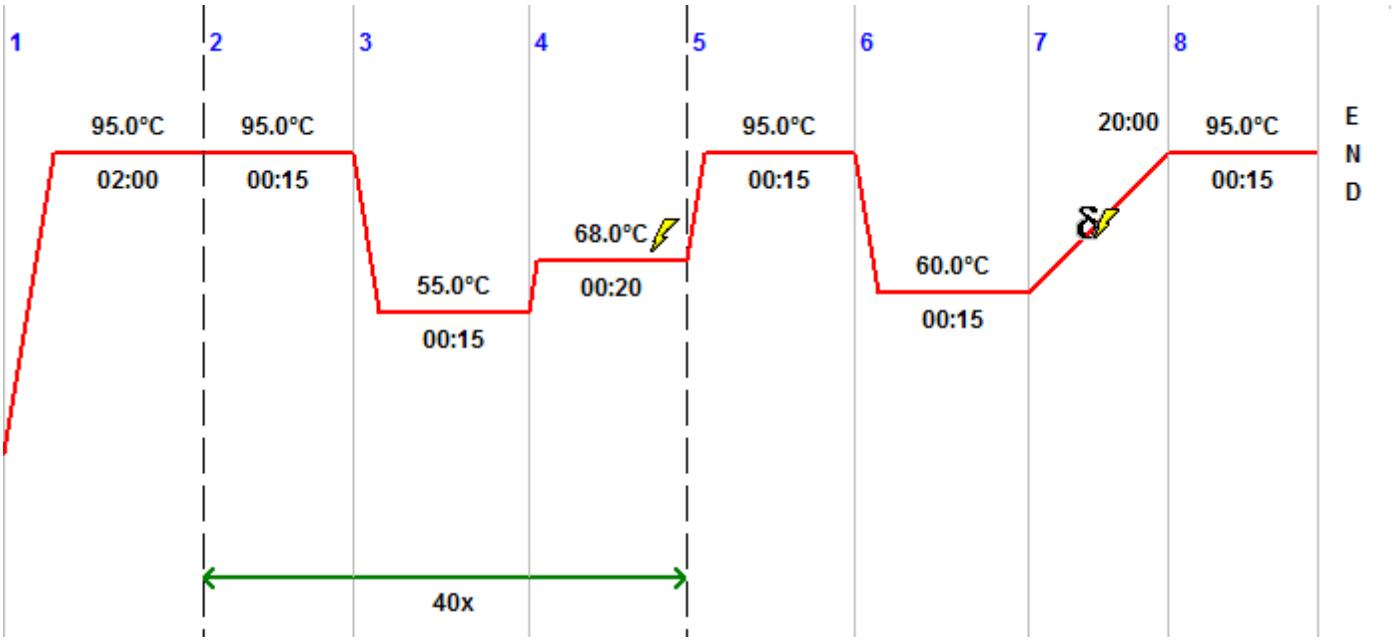
# Document information

| | | |
|---|---|---|
| Software: | realplex 2.2 | |
| File Name: | EPPENDORF\Svenja\cecum_plate11 | |
| Printed by: | EPPENDORF | |
| Created: | Feb/08/2019 14:53 | |
| Serial No. Thermo Module: | 6325 30387 | |
| Serial No. realplex Module.: | 630011465 | |
| Acquisition Start Time: | EPPENDORF | Feb/08/2019 14:57 |
| Acquisition End Time: | EPPENDORF | Feb/08/2019 16:26 |
| Last updated: | EPPENDORF | Dec/18/2018 14:10 |
| Background: | Sarstedt-20µl | Sep/12/2011 10:28 |
| Color Calibration: | SYBR | Mar/12/2018 15:31 |
| cecum_plate11 | Quantification | Feb/08/2019 17:51 |
| | Melting Curve | Feb/08/2019 17:49 |
| Inverted Data: | OFF | |
| Comment: | | |

## Plate layout



# PCR Program

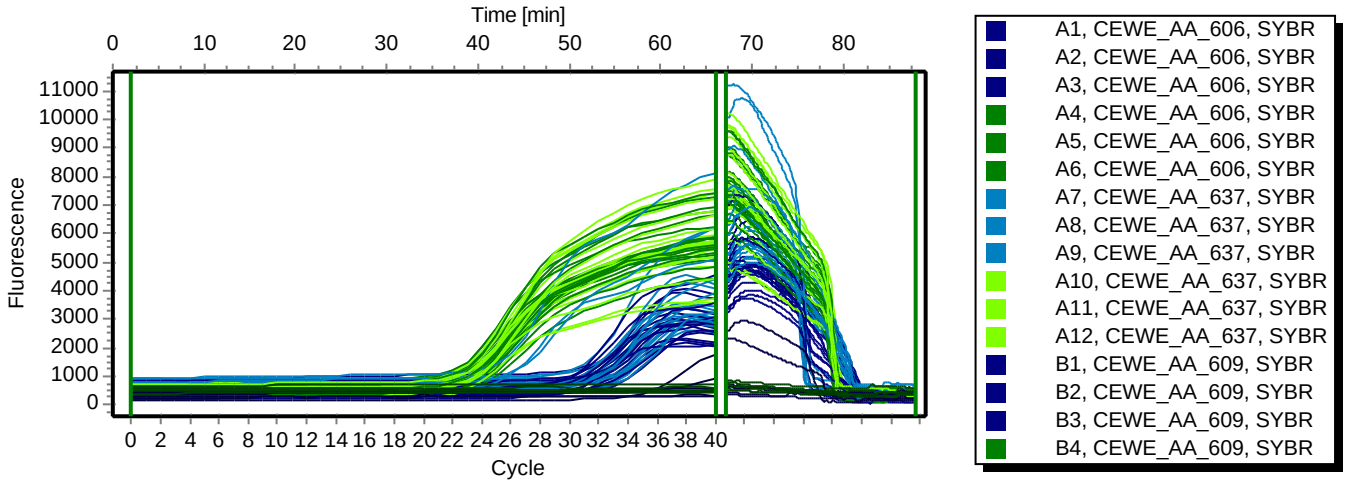



## Program Header

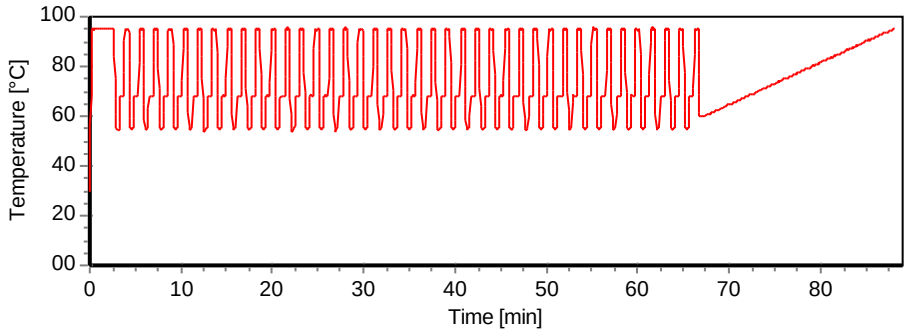
| | | | |
|---|---|---|---|
| Lid Temp | 105 °C | TSP Heated Lid | Yes |
| Temp. Mode | Standard | Switch off lid at low block temp | No |
| Impulse | No | Simulate Mastercycler gradient | No |

# Raw Data SYBR

## Fluorescence Profile




## Temperature Profile



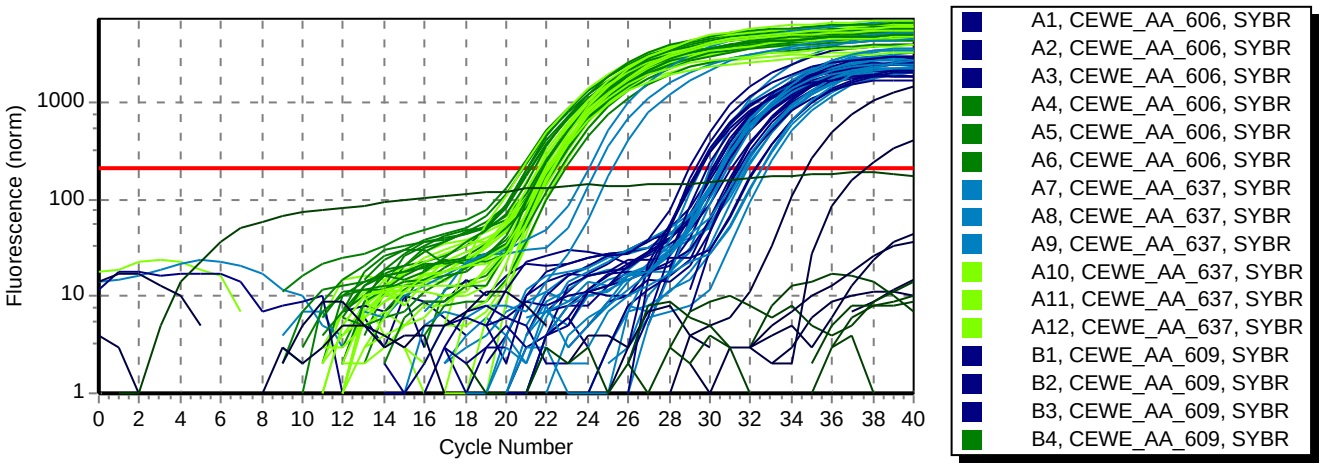
# Quantification SYBR

| Pos | Name | Ct SYBR | Ct Mean SYBR | Ct Dev. SYBR | Amount SYBR [Copies] | Amount Mean SYBR | Amount Dev. SYBR | Target SYBR |
|---|---|---|---|---|---|---|---|---|
| A1 | CEWE_AA_606 | 31.04 | 30.46 | 0.51 | 1.00 | | | eimeria |
| A2 | CEWE_AA_606 | 30.22 | 30.46 | 0.51 | 1.00 | | | eimeria |
| A3 | CEWE_AA_606 | 30.10 | 30.46 | 0.51 | 1.00 | | | eimeria |
| A4 | CEWE_AA_606 | 22.29 | 22.14 | 0.26 | 1.00 | | | mouse |
| A5 | CEWE_AA_606 | 21.85 | 22.14 | 0.26 | 1.00 | | | mouse |
| A6 | CEWE_AA_606 | 22.30 | 22.14 | 0.26 | 1.00 | | | mouse |
| A7 | CEWE_AA_637 | 30.46 | 30.99 | 0.62 | 1.00 | | | eimeria |
| A8 | CEWE_AA_637 | 30.85 | 30.99 | 0.62 | 1.00 | | | eimeria |
| A9 | CEWE_AA_637 | 31.67 | 30.99 | 0.62 | 1.00 | | | eimeria |
| A10 | CEWE_AA_637 | 22.73 | 22.52 | 0.20 | 1.00 | | | mouse |
| A11 | CEWE_AA_637 | 22.33 | 22.52 | 0.20 | 1.00 | | | mouse |
| A12 | CEWE_AA_637 | 22.51 | 22.52 | 0.20 | 1.00 | | | mouse |
| B1 | CEWE_AA_609 | 30.67 | 30.67 | 0.01 | 1.00 | | | eimeria |
| B2 | CEWE_AA_609 | 30.66 | 30.67 | 0.01 | 1.00 | | | eimeria |
| B3 | CEWE_AA_609 | 30.67 | 30.67 | 0.01 | 1.00 | | | eimeria |
| B4 | CEWE_AA_609 | 21.24 | 21.17 | 0.10 | 1.00 | | | mouse |
| B5 | CEWE_AA_609 | 21.06 | 21.17 | 0.10 | 1.00 | | | mouse |
| B6 | CEWE_AA_609 | 21.20 | 21.17 | 0.10 | 1.00 | | | mouse |
| B7 | CEWE_AA_639 | 32.80 | 32.40 | 0.50 | 1.00 | | | eimeria |
| B8 | CEWE_AA_639 | 31.83 | 32.40 | 0.50 | 1.00 | | | eimeria |
| B9 | CEWE_AA_639 | 32.55 | 32.40 | 0.50 | 1.00 | | | eimeria |
| B10 | CEWE_AA_639 | 22.09 | 21.98 | 0.12 | 1.00 | | | mouse |
| B11 | CEWE_AA_639 | 21.85 | 21.98 | 0.12 | 1.00 | | | mouse |
| B12 | CEWE_AA_639 | 22.01 | 21.98 | 0.12 | 1.00 | | | mouse |
| C1 | CEWE_AA_610 | 31.46 | 30.68 | 0.69 | 1.00 | | | eimeria |
| C2 | CEWE_AA_610 | 30.22 | 30.68 | 0.69 | 1.00 | | | eimeria |
| C3 | CEWE_AA_610 | 30.35 | 30.68 | 0.69 | 1.00 | | | eimeria |
| C4 | CEWE_AA_610 | 21.07 | 20.87 | 0.20 | 1.00 | | | mouse |
| C5 | CEWE_AA_610 | 20.68 | 20.87 | 0.20 | 1.00 | | | mouse |
| C6 | CEWE_AA_610 | 20.84 | 20.87 | 0.20 | 1.00 | | | mouse |
| C7 | CEWE_AA_640 | 31.70 | 31.42 | 0.65 | 1.00 | | | eimeria |
| C8 | CEWE_AA_640 | 30.67 | 31.42 | 0.65 | 1.00 | | | eimeria |
| C9 | CEWE_AA_640 | 31.89 | 31.42 | 0.65 | 1.00 | | | eimeria |
| C10 | CEWE_AA_640 | 22.04 | 21.85 | 0.19 | 1.00 | | | mouse |
| C11 | CEWE_AA_640 | 21.66 | 21.85 | 0.19 | 1.00 | | | mouse |

| Pos | Name | Ct SYBR | Ct Mean SYBR | Ct Dev. SYBR | Amount SYBR [Copies] | Amount Mean SYBR | Amount Dev. SYBR | Target SYBR |
|---|---|---|---|---|---|---|---|---|
| C12 | CEWE_AA_640 | 21.85 | 21.85 | 0.19 | 1.00 | | | mouse |
| D1 | CEWE_AA_613 | 32.27 | 31.42 | 0.78 | 1.00 | | | eimeria |
| D2 | CEWE_AA_613 | 31.27 | 31.42 | 0.78 | 1.00 | | | eimeria |
| D3 | CEWE_AA_613 | 30.72 | 31.42 | 0.78 | 1.00 | | | eimeria |
| D4 | CEWE_AA_613 | 22.38 | 22.13 | 0.32 | 1.00 | | | mouse |
| D5 | CEWE_AA_613 | 21.77 | 22.13 | 0.32 | 1.00 | | | mouse |
| D6 | CEWE_AA_613 | 22.23 | 22.13 | 0.32 | 1.00 | | | mouse |
| D7 | CEWE_AA_643 | 30.47 | 30.00 | 0.45 | 1.00 | | | eimeria |
| D8 | CEWE_AA_643 | 29.98 | 30.00 | 0.45 | 1.00 | | | eimeria |
| D9 | CEWE_AA_643 | 29.57 | 30.00 | 0.45 | 1.00 | | | eimeria |
| D10 | CEWE_AA_643 | 21.79 | 21.94 | 0.21 | 1.00 | | | mouse |
| D11 | CEWE_AA_643 | 21.84 | 21.94 | 0.21 | 1.00 | | | mouse |
| D12 | CEWE_AA_643 | 22.18 | 21.94 | 0.21 | 1.00 | | | mouse |
| E1 | CEWE_AA_619 | 32.22 | 31.72 | 0.45 | 1.00 | | | eimeria |
| E2 | CEWE_AA_619 | 31.36 | 31.72 | 0.45 | 1.00 | | | eimeria |
| E3 | CEWE_AA_619 | 31.59 | 31.72 | 0.45 | 1.00 | | | eimeria |
| E4 | CEWE_AA_619 | 22.25 | 22.30 | 0.04 | 1.00 | | | mouse |
| E5 | CEWE_AA_619 | 22.33 | 22.30 | 0.04 | 1.00 | | | mouse |
| E6 | CEWE_AA_619 | 22.31 | 22.30 | 0.04 | 1.00 | | | mouse |
| E7 | CEWE_AA_653 | 31.58 | 30.92 | 0.57 | 1.00 | | | eimeria |
| E8 | CEWE_AA_653 | 30.59 | 30.92 | 0.57 | 1.00 | | | eimeria |
| E9 | CEWE_AA_653 | 30.58 | 30.92 | 0.57 | 1.00 | | | eimeria |
| E10 | CEWE_AA_653 | 21.58 | 21.28 | 0.40 | 1.00 | | | mouse |
| E11 | CEWE_AA_653 | 20.83 | 21.28 | 0.40 | 1.00 | | | mouse |
| E12 | CEWE_AA_653 | 21.43 | 21.28 | 0.40 | 1.00 | | | mouse |
| F1 | CEWE_AA_623 | 29.86 | 29.42 | 0.45 | 1.00 | | | eimeria |
| F2 | CEWE_AA_623 | 28.96 | 29.42 | 0.45 | 1.00 | | | eimeria |
| F3 | CEWE_AA_623 | 29.44 | 29.42 | 0.45 | 1.00 | | | eimeria |
| F4 | CEWE_AA_623 | 22.85 | 22.64 | 0.23 | 1.00 | | | mouse |
| F5 | CEWE_AA_623 | 22.40 | 22.64 | 0.23 | 1.00 | | | mouse |
| F6 | CEWE_AA_623 | 22.66 | 22.64 | 0.23 | 1.00 | | | mouse |
| F7 | CEWE_AA_662 | 25.21 | 24.57 | 0.58 | 1.00 | | | eimeria |
| F8 | CEWE_AA_662 | 24.06 | 24.57 | 0.58 | 1.00 | | | eimeria |
| F9 | CEWE_AA_662 | 24.44 | 24.57 | 0.58 | 1.00 | | | eimeria |
| F10 | CEWE_AA_662 | 22.06 | 22.07 | 0.19 | 1.00 | | | mouse |
| F11 | CEWE_AA_662 | 21.89 | 22.07 | 0.19 | 1.00 | | | mouse |
| F12 | CEWE_AA_662 | 22.27 | 22.07 | 0.19 | 1.00 | | | mouse |
| G1 | CEWE_AA_631 | 29.53 | 29.42 | 0.14 | 1.00 | | | eimeria |
| G2 | CEWE_AA_631 | 29.27 | 29.42 | 0.14 | 1.00 | | | eimeria |

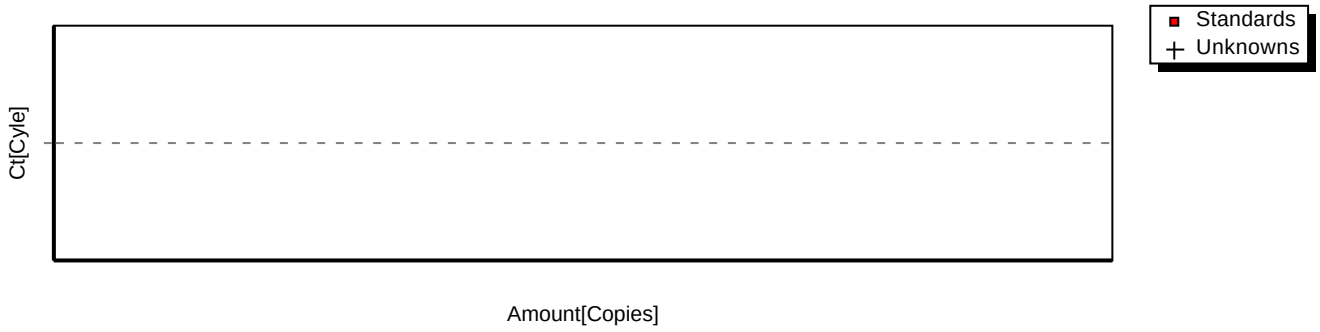
| Pos | Name | Ct SYBR | Ct Mean SYBR | Ct Dev. SYBR | Amount SYBR [Copies] | Amount Mean SYBR | Amount Dev. SYBR | Target SYBR |
|---|---|---|---|---|---|---|---|---|
| G3 | CEWE_AA_631 | 29.47 | 29.42 | 0.14 | 1.00 | | | eimeria |
| G4 | CEWE_AA_631 | 21.81 | 21.68 | 0.23 | 1.00 | | | mouse |
| G5 | CEWE_AA_631 | 21.41 | 21.68 | 0.23 | 1.00 | | | mouse |
| G6 | CEWE_AA_631 | 21.81 | 21.68 | 0.23 | 1.00 | | | mouse |
| G7 | CEWE_AA_664 | 32.54 | 31.33 | 1.07 | 1.00 | | | eimeria |
| G8 | CEWE_AA_664 | 30.89 | 31.33 | 1.07 | 1.00 | | | eimeria |
| G9 | CEWE_AA_664 | 30.55 | 31.33 | 1.07 | 1.00 | | | eimeria |
| G10 | CEWE_AA_664 | 22.32 | 22.25 | 0.13 | 1.00 | | | mouse |
| G11 | CEWE_AA_664 | 22.10 | 22.25 | 0.13 | 1.00 | | | mouse |
| G12 | CEWE_AA_664 | 22.34 | 22.25 | 0.13 | 1.00 | | | mouse |
| H1 | NTC | - | | | - | | | eimeria |
| H2 | NTC | - | | | - | | | eimeria |
| H3 | NTC | 34.72 | | | - | | | eimeria |
| H4 | NTC | - | | | - | | | mouse |
| H5 | NTC | - | | | - | | | mouse |
| H6 | NTC | - | | | - | | | mouse |
| H7 | water | - | | | - | | | eimeria |
| H8 | water | - | | | - | | | eimeria |
| H9 | water | 37.59 | | | - | | | eimeria |
| H10 | water | - | | | - | | | mouse |
| H11 | water | - | | | - | | | mouse |
| H12 | water | - | | | - | | | mouse |

## Amplification Plot




| | |
|---|---|
| Threshold | 209 (Noiseband) |
| Baseline | automatic, Drift correction OFF |

## Standard curve




| | | | |
|---|---|---|---|
| Slope | - | R^2 | - |
| Y-Intercept | - | Efficiency | - |

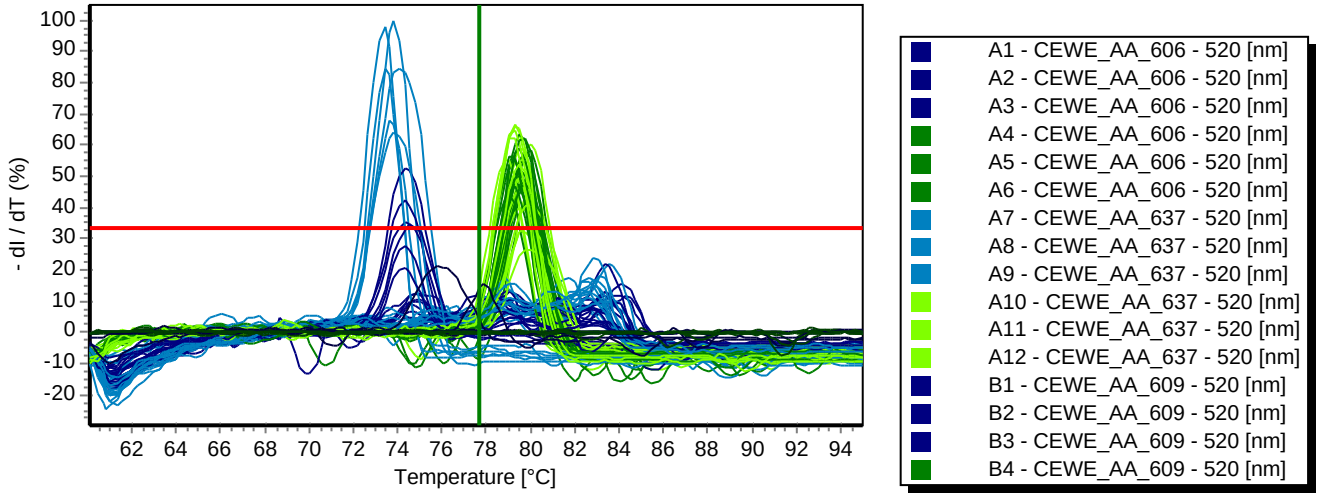
# Melting Curve SYBR

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| A1 | CEWE_AA_606 | 0 | | | | |
| A2 | CEWE_AA_606 | 0 | | | | |
| A3 | CEWE_AA_606 | 0 | | | | |
| A4 | CEWE_AA_606 | 1 | 79.8 | | | |
| A5 | CEWE_AA_606 | 1 | 79.9 | | | |
| A6 | CEWE_AA_606 | 1 | 80.0 | | | |
| A7 | CEWE_AA_637 | 0 | | | | |
| A8 | CEWE_AA_637 | 0 | | | | |
| A9 | CEWE_AA_637 | 0 | | | | |
| A10 | CEWE_AA_637 | 1 | 79.7 | | | |
| A11 | CEWE_AA_637 | 1 | 80.0 | | | |
| A12 | CEWE_AA_637 | 1 | 80.0 | | | |
| B1 | CEWE_AA_609 | 0 | | | | |
| B2 | CEWE_AA_609 | 0 | | | | |
| B3 | CEWE_AA_609 | 0 | | | | |
| B4 | CEWE_AA_609 | 1 | 79.6 | | | |
| B5 | CEWE_AA_609 | 1 | 79.8 | | | |
| B6 | CEWE_AA_609 | 1 | 79.9 | | | |
| B7 | CEWE_AA_639 | 0 | | | | |
| B8 | CEWE_AA_639 | 0 | | | | |
| B9 | CEWE_AA_639 | 0 | | | | |
| B10 | CEWE_AA_639 | 1 | 79.4 | | | |
| B11 | CEWE_AA_639 | 1 | 79.6 | | | |
| B12 | CEWE_AA_639 | 1 | 79.7 | | | |
| C1 | CEWE_AA_610 | 0 | | | | |
| C2 | CEWE_AA_610 | 0 | | | | |
| C3 | CEWE_AA_610 | 0 | | | | |
| C4 | CEWE_AA_610 | 1 | 79.4 | | | |
| C5 | CEWE_AA_610 | 1 | 79.6 | | | |
| C6 | CEWE_AA_610 | 1 | 79.7 | | | |
| C7 | CEWE_AA_640 | 0 | | | | |
| C8 | CEWE_AA_640 | 0 | | | | |
| C9 | CEWE_AA_640 | 0 | | | | |
| C10 | CEWE_AA_640 | 1 | 79.1 | | | |
| C11 | CEWE_AA_640 | 1 | 79.3 | | | |
| C12 | CEWE_AA_640 | 1 | 79.5 | | | |

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| D1 | CEWE_AA_613 | 0 | | | | |
| D2 | CEWE_AA_613 | 0 | | | | |
| D3 | CEWE_AA_613 | 0 | | | | |
| D4 | CEWE_AA_613 | 1 | 79.2 | | | |
| D5 | CEWE_AA_613 | 1 | 79.5 | | | |
| D6 | CEWE_AA_613 | 1 | 79.6 | | | |
| D7 | CEWE_AA_643 | 1 | 73.5 | | | |
| D8 | CEWE_AA_643 | 1 | 73.8 | | | |
| D9 | CEWE_AA_643 | 1 | 73.7 | | | |
| D10 | CEWE_AA_643 | 1 | 79.5 | | | |
| D11 | CEWE_AA_643 | 1 | 79.5 | | | |
| D12 | CEWE_AA_643 | 0 | | | | |
| E1 | CEWE_AA_619 | 0 | | | | |
| E2 | CEWE_AA_619 | 0 | | | | |
| E3 | CEWE_AA_619 | 0 | | | | |
| E4 | CEWE_AA_619 | 1 | 79.4 | | | |
| E5 | CEWE_AA_619 | 1 | 79.5 | | | |
| E6 | CEWE_AA_619 | 1 | 79.5 | | | |
| E7 | CEWE_AA_653 | 0 | | | | |
| E8 | CEWE_AA_653 | 0 | | | | |
| E9 | CEWE_AA_653 | 0 | | | | |
| E10 | CEWE_AA_653 | 1 | 79.0 | | | |
| E11 | CEWE_AA_653 | 1 | 79.2 | | | |
| E12 | CEWE_AA_653 | 1 | 79.4 | | | |
| F1 | CEWE_AA_623 | 1 | 74.3 | | | |
| F2 | CEWE_AA_623 | 1 | 74.4 | | | |
| F3 | CEWE_AA_623 | 1 | 74.4 | | | |
| F4 | CEWE_AA_623 | 1 | 79.1 | | | |
| F5 | CEWE_AA_623 | 1 | 79.2 | | | |
| F6 | CEWE_AA_623 | 1 | 79.3 | | | |
| F7 | CEWE_AA_662 | 1 | 73.4 | | | |
| F8 | CEWE_AA_662 | 1 | 74.1 | | | |
| F9 | CEWE_AA_662 | 1 | 73.9 | | | |
| F10 | CEWE_AA_662 | 1 | 79.9 | | | |
| F11 | CEWE_AA_662 | 1 | 80.0 | | | |
| F12 | CEWE_AA_662 | 0 | | | | |
| G1 | CEWE_AA_631 | 0 | | | | |
| G2 | CEWE_AA_631 | 1 | 74.6 | | | |
| G3 | CEWE_AA_631 | 0 | | | | |
| G4 | CEWE_AA_631 | 1 | 79.5 | | | |

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| G5 | CEWE_AA_631 | 1 | 79.7 | | | |
| G6 | CEWE_AA_631 | 1 | 79.7 | | | |
| G7 | CEWE_AA_664 | 0 | | | | |
| G8 | CEWE_AA_664 | 0 | | | | |
| G9 | CEWE_AA_664 | 0 | | | | |
| G10 | CEWE_AA_664 | 1 | 79.2 | | | |
| G11 | CEWE_AA_664 | 1 | 79.4 | | | |
| G12 | CEWE_AA_664 | 1 | 79.5 | | | |
| H1 | NTC | 0 | | | | |
| H2 | NTC | 0 | | | | |
| H3 | NTC | 0 | | | | |
| H4 | NTC | 0 | | | | |
| H5 | NTC | 0 | | | | |
| H6 | NTC | 0 | | | | |
| H7 | water | 0 | | | | |
| H8 | water | 0 | | | | |
| H9 | water | 0 | | | | |
| H10 | water | 0 | | | | |
| H11 | water | 0 | | | | |
| H12 | water | 0 | | | | |

## Melting curve




Threshold 33%