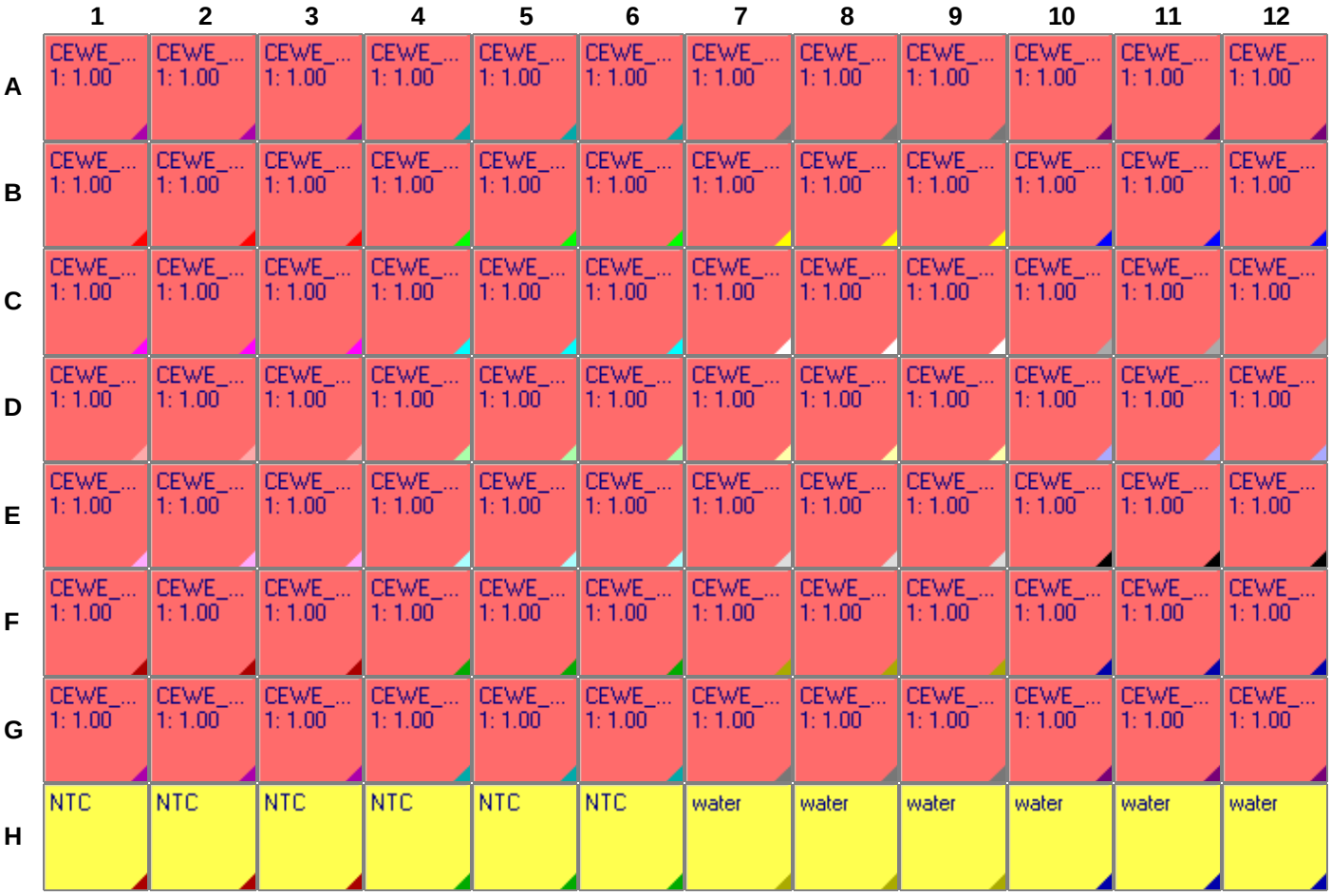
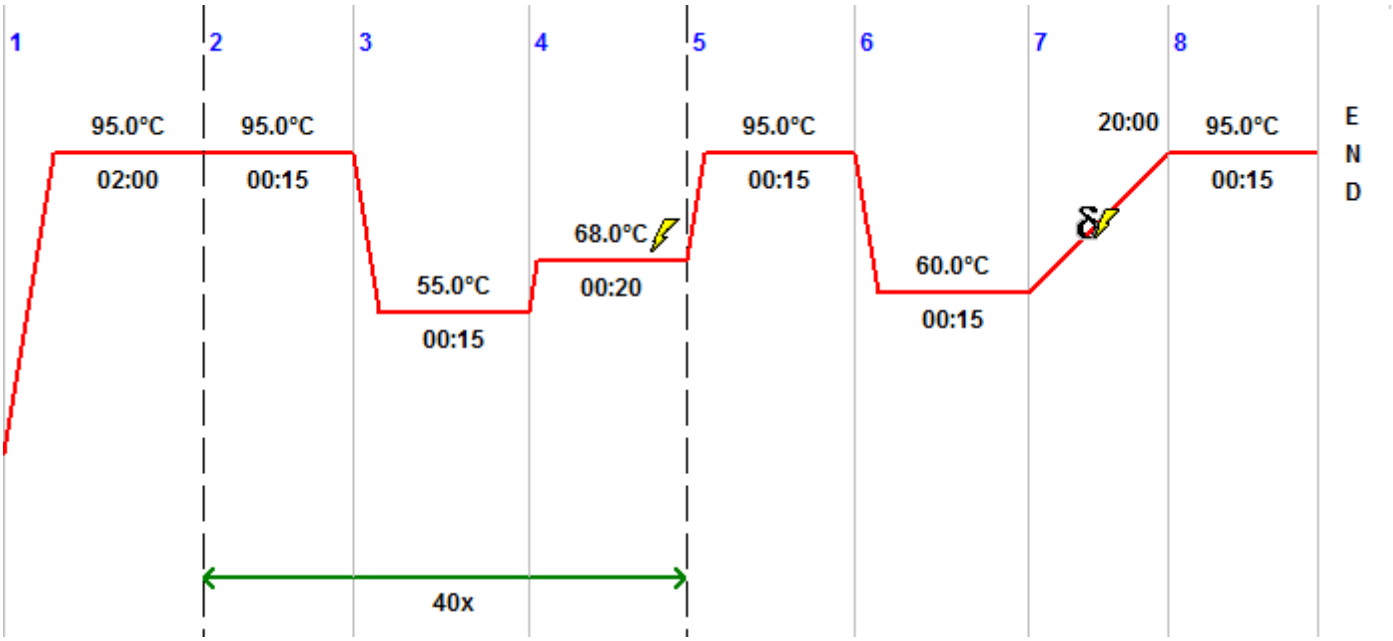
# Document information

| | | |
|---|---|---|
| Software: | realplex 2.2 | |
| File Name: | EPPENDORF\Svenja\cecum_plate9 | |
| Printed by: | EPPENDORF | |
| Created: | Feb/07/2019 15:18 | |
| Serial No. Thermo Module: | 6325 30387 | |
| Serial No. realplex Module.: | 630011465 | |
| Acquisition Start Time: | EPPENDORF | Feb/07/2019 15:22 |
| Acquisition End Time: | EPPENDORF | Feb/07/2019 16:50 |
| 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_plate9 | Quantification | Feb/07/2019 17:03 |
| | Melting Curve | Feb/07/2019 17:02 |
| Inverted Data: | OFF | |
| Comment: | | |

## Plate layout



# PCR Program

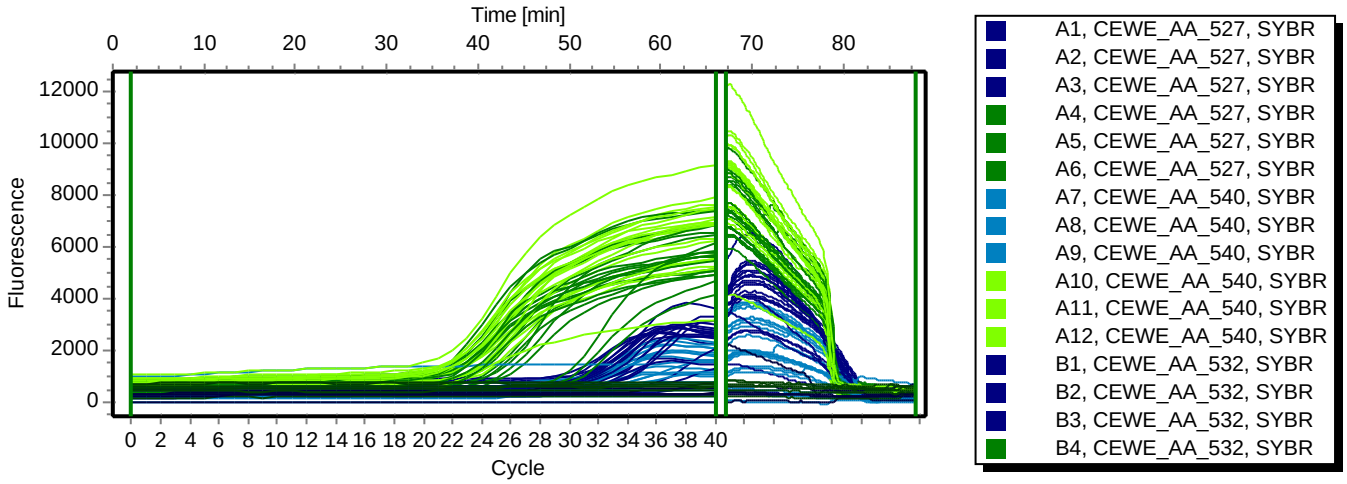



## Program Header

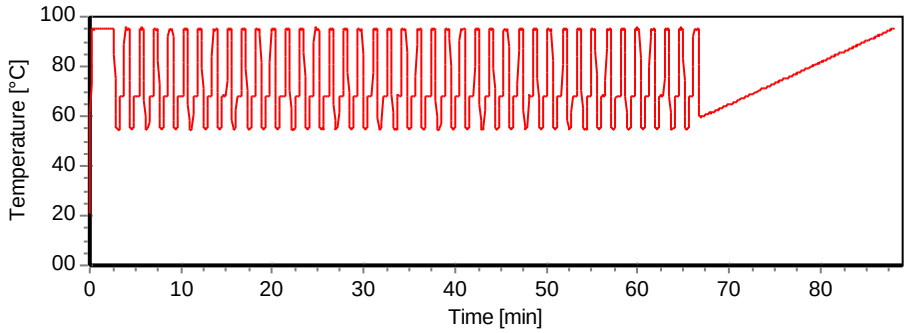
| | | | |
|---|---|---|---|
| Lid Temp | 105 °C | TSP Heated Lid | Yes |
| Temp. Mode | Standard | Switch off lid at low block temp | No |
| Impulse | No | Simulate Mastercycler gradient | No |

# Raw Data SYBR

## Fluorescence Profile




## Temperature Profile



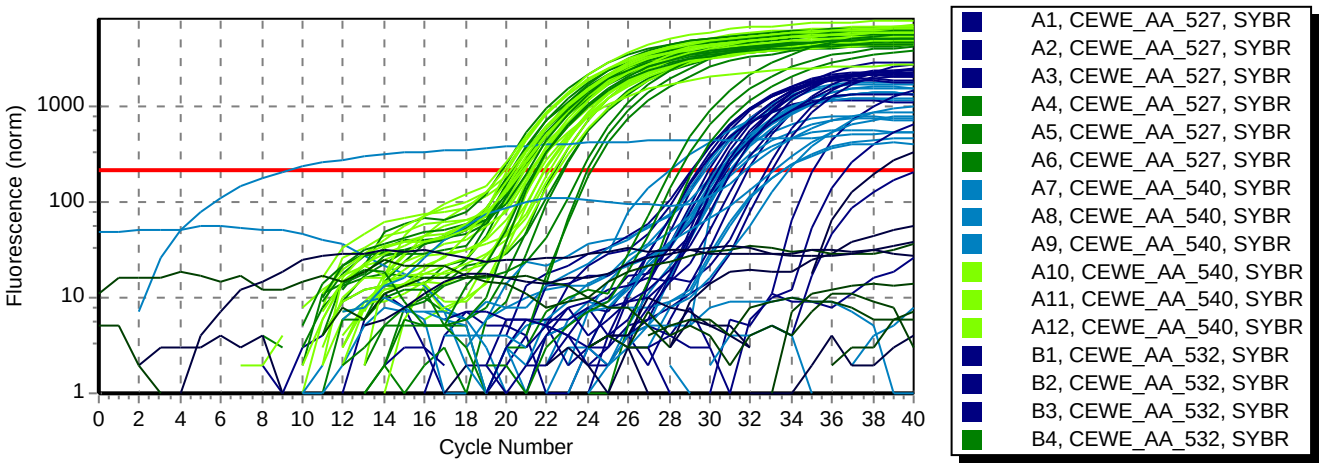
# Quantification SYBR

| Pos | Name | Ct SYBR | Ct Mean SYBR | Ct Dev. SYBR | Amount SYBR [Copies] | Amount Mean SYBR | Amount Dev. SYBR | Target SYBR |
|---|---|---|---|---|---|---|---|---|
| A1 | CEWE_AA_527 | 29.98 | 29.68 | 0.29 | 1.00 | | | eimeria |
| A2 | CEWE_AA_527 | 29.65 | 29.68 | 0.29 | 1.00 | | | eimeria |
| A3 | CEWE_AA_527 | 29.40 | 29.68 | 0.29 | 1.00 | | | eimeria |
| A4 | CEWE_AA_527 | 22.80 | 22.66 | 0.19 | 1.00 | | | mouse |
| A5 | CEWE_AA_527 | 22.44 | 22.66 | 0.19 | 1.00 | | | mouse |
| A6 | CEWE_AA_527 | 22.73 | 22.66 | 0.19 | 1.00 | | | mouse |
| A7 | CEWE_AA_540 | 29.64 | 29.15 | 1.00 | 1.00 | | | eimeria |
| A8 | CEWE_AA_540 | 29.80 | 29.15 | 1.00 | 1.00 | | | eimeria |
| A9 | CEWE_AA_540 | 28.00 | 29.15 | 1.00 | 1.00 | | | eimeria |
| A10 | CEWE_AA_540 | 21.23 | 21.17 | 0.21 | 1.00 | | | mouse |
| A11 | CEWE_AA_540 | 21.35 | 21.17 | 0.21 | 1.00 | | | mouse |
| A12 | CEWE_AA_540 | 20.94 | 21.17 | 0.21 | 1.00 | | | mouse |
| B1 | CEWE_AA_532 | 29.15 | 29.25 | 0.22 | 1.00 | | | eimeria |
| B2 | CEWE_AA_532 | 29.08 | 29.25 | 0.22 | 1.00 | | | eimeria |
| B3 | CEWE_AA_532 | 29.50 | 29.25 | 0.22 | 1.00 | | | eimeria |
| B4 | CEWE_AA_532 | 20.83 | 20.73 | 0.12 | 1.00 | | | mouse |
| B5 | CEWE_AA_532 | 20.60 | 20.73 | 0.12 | 1.00 | | | mouse |
| B6 | CEWE_AA_532 | 20.78 | 20.73 | 0.12 | 1.00 | | | mouse |
| B7 | CEWE_AA_543 | 31.10 | 30.74 | 0.32 | 1.00 | | | eimeria |
| B8 | CEWE_AA_543 | 30.62 | 30.74 | 0.32 | 1.00 | | | eimeria |
| B9 | CEWE_AA_543 | 30.49 | 30.74 | 0.32 | 1.00 | | | eimeria |
| B10 | CEWE_AA_543 | 21.95 | 21.83 | 0.18 | 1.00 | | | mouse |
| B11 | CEWE_AA_543 | 21.92 | 21.83 | 0.18 | 1.00 | | | mouse |
| B12 | CEWE_AA_543 | 21.63 | 21.83 | 0.18 | 1.00 | | | mouse |
| C1 | CEWE_AA_536 | 31.92 | 31.21 | 0.61 | 1.00 | | | eimeria |
| C2 | CEWE_AA_536 | 30.86 | 31.21 | 0.61 | 1.00 | | | eimeria |
| C3 | CEWE_AA_536 | 30.85 | 31.21 | 0.61 | 1.00 | | | eimeria |
| C4 | CEWE_AA_536 | 20.72 | 20.48 | 0.21 | 1.00 | | | mouse |
| C5 | CEWE_AA_536 | 20.38 | 20.48 | 0.21 | 1.00 | | | mouse |
| C6 | CEWE_AA_536 | 20.34 | 20.48 | 0.21 | 1.00 | | | mouse |
| C7 | CEWE_AA_552 | 30.33 | 30.66 | 0.40 | 1.00 | | | eimeria |
| C8 | CEWE_AA_552 | 30.54 | 30.66 | 0.40 | 1.00 | | | eimeria |
| C9 | CEWE_AA_552 | 31.10 | 30.66 | 0.40 | 1.00 | | | eimeria |
| C10 | CEWE_AA_552 | 21.71 | 21.20 | 0.58 | 1.00 | | | mouse |
| C11 | CEWE_AA_552 | 21.34 | 21.20 | 0.58 | 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_552 | 20.57 | 21.20 | 0.58 | 1.00 | | | mouse |
| D1 | CEWE_AA_538 | 31.63 | 30.75 | 0.77 | 1.00 | | | eimeria |
| D2 | CEWE_AA_538 | 30.42 | 30.75 | 0.77 | 1.00 | | | eimeria |
| D3 | CEWE_AA_538 | 30.20 | 30.75 | 0.77 | 1.00 | | | eimeria |
| D4 | CEWE_AA_538 | 20.43 | 20.15 | 0.33 | 1.00 | | | mouse |
| D5 | CEWE_AA_538 | 19.79 | 20.15 | 0.33 | 1.00 | | | mouse |
| D6 | CEWE_AA_538 | 20.24 | 20.15 | 0.33 | 1.00 | | | mouse |
| D7 | CEWE_AA_563 | 31.04 | 31.06 | 0.29 | 1.00 | | | eimeria |
| D8 | CEWE_AA_563 | 30.78 | 31.06 | 0.29 | 1.00 | | | eimeria |
| D9 | CEWE_AA_563 | 31.37 | 31.06 | 0.29 | 1.00 | | | eimeria |
| D10 | CEWE_AA_563 | 22.55 | 22.36 | 0.19 | 1.00 | | | mouse |
| D11 | CEWE_AA_563 | 22.35 | 22.36 | 0.19 | 1.00 | | | mouse |
| D12 | CEWE_AA_563 | 22.18 | 22.36 | 0.19 | 1.00 | | | mouse |
| E1 | CEWE_AA_550 | 35.05 | 33.62 | 1.25 | 1.00 | | | eimeria |
| E2 | CEWE_AA_550 | 33.02 | 33.62 | 1.25 | 1.00 | | | eimeria |
| E3 | CEWE_AA_550 | 32.78 | 33.62 | 1.25 | 1.00 | | | eimeria |
| E4 | CEWE_AA_550 | 24.19 | 23.96 | 0.25 | 1.00 | | | mouse |
| E5 | CEWE_AA_550 | 23.70 | 23.96 | 0.25 | 1.00 | | | mouse |
| E6 | CEWE_AA_550 | 23.98 | 23.96 | 0.25 | 1.00 | | | mouse |
| E7 | CEWE_AA_659 | 33.87 | 25.63 | 14.07 | 1.00 | | | eimeria |
| E8 | CEWE_AA_659 | 9.38 | 25.63 | 14.07 | 1.00 | | | eimeria |
| E9 | CEWE_AA_659 | 33.63 | 25.63 | 14.07 | 1.00 | | | eimeria |
| E10 | CEWE_AA_659 | 20.89 | 20.63 | 0.34 | 1.00 | | | mouse |
| E11 | CEWE_AA_659 | 20.75 | 20.63 | 0.34 | 1.00 | | | mouse |
| E12 | CEWE_AA_659 | 20.24 | 20.63 | 0.34 | 1.00 | | | mouse |
| F1 | CEWE_AA_652? | | | | 1.00 | | | eimeria |
| F2 | CEWE_AA_652? | | | | 1.00 | | | eimeria |
| F3 | CEWE_AA_652? | 36.69 | | | 1.00 | | | eimeria |
| F4 | CEWE_AA_652? | 29.16 | 28.58 | 0.55 | 1.00 | | | mouse |
| F5 | CEWE_AA_652? | 28.07 | 28.58 | 0.55 | 1.00 | | | mouse |
| F6 | CEWE_AA_652? | 28.50 | 28.58 | 0.55 | 1.00 | | | mouse |
| F7 | CEWE_AA_564 | | | | 1.00 | | | eimeria |
| F8 | CEWE_AA_564 | | | | 1.00 | | | eimeria |
| F9 | CEWE_AA_564 | | | | 1.00 | | | eimeria |
| F10 | CEWE_AA_564 | 21.27 | 20.33 | 0.84 | 1.00 | | | mouse |
| F11 | CEWE_AA_564 | 19.66 | 20.33 | 0.84 | 1.00 | | | mouse |
| F12 | CEWE_AA_564 | 20.07 | 20.33 | 0.84 | 1.00 | | | mouse |
| G1 | CEWE_AA_674 | 31.13 | 30.85 | 0.25 | 1.00 | | | eimeria |
| G2 | CEWE_AA_674 | 30.67 | 30.85 | 0.25 | 1.00 | | | eimeria |

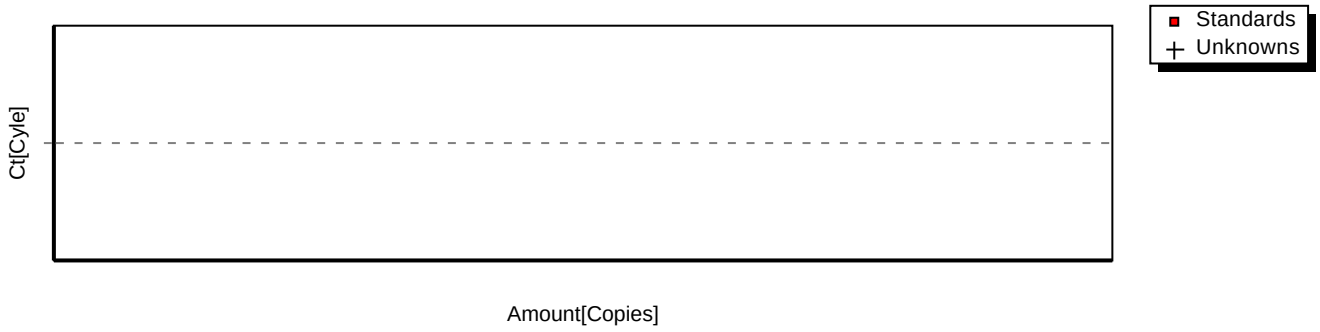
| Pos | Name | Ct SYBR | Ct Mean SYBR | Ct Dev. SYBR | Amount SYBR [Copies] | Amount Mean SYBR | Amount Dev. SYBR | Target SYBR |
|---|---|---|---|---|---|---|---|---|
| G3 | CEWE_AA_674 | 30.76 | 30.85 | 0.25 | 1.00 | | | eimeria |
| G4 | CEWE_AA_674 | 21.48 | 21.37 | 0.23 | 1.00 | | | mouse |
| G5 | CEWE_AA_674 | 21.10 | 21.37 | 0.23 | 1.00 | | | mouse |
| G6 | CEWE_AA_674 | 21.53 | 21.37 | 0.23 | 1.00 | | | mouse |
| G7 | CEWE_AA_567 | 33.18 | 32.87 | 0.95 | 1.00 | | | eimeria |
| G8 | CEWE_AA_567 | 31.80 | 32.87 | 0.95 | 1.00 | | | eimeria |
| G9 | CEWE_AA_567 | 33.62 | 32.87 | 0.95 | 1.00 | | | eimeria |
| G10 | CEWE_AA_567 | 20.57 | 20.30 | 0.35 | 1.00 | | | mouse |
| G11 | CEWE_AA_567 | 20.42 | 20.30 | 0.35 | 1.00 | | | mouse |
| G12 | CEWE_AA_567 | 19.90 | 20.30 | 0.35 | 1.00 | | | mouse |
| H1 | NTC | - | | | - | | | eimeria |
| H2 | NTC | 38.31 | | | - | | | eimeria |
| H3 | NTC | - | | | - | | | eimeria |
| H4 | NTC | - | | | - | | | mouse |
| H5 | NTC | - | | | - | | | mouse |
| H6 | NTC | - | | | - | | | mouse |
| H7 | water | - | | | - | | | eimeria |
| H8 | water | - | | | - | | | eimeria |
| H9 | water | - | | | - | | | eimeria |
| H10 | water | - | | | - | | | mouse |
| H11 | water | - | | | - | | | mouse |
| H12 | water | - | | | - | | | mouse |

## Amplification Plot




| | |
|---|---|
| Threshold | 216 (Noiseband) |
| Baseline | automatic, Drift correction OFF |

## Standard curve




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

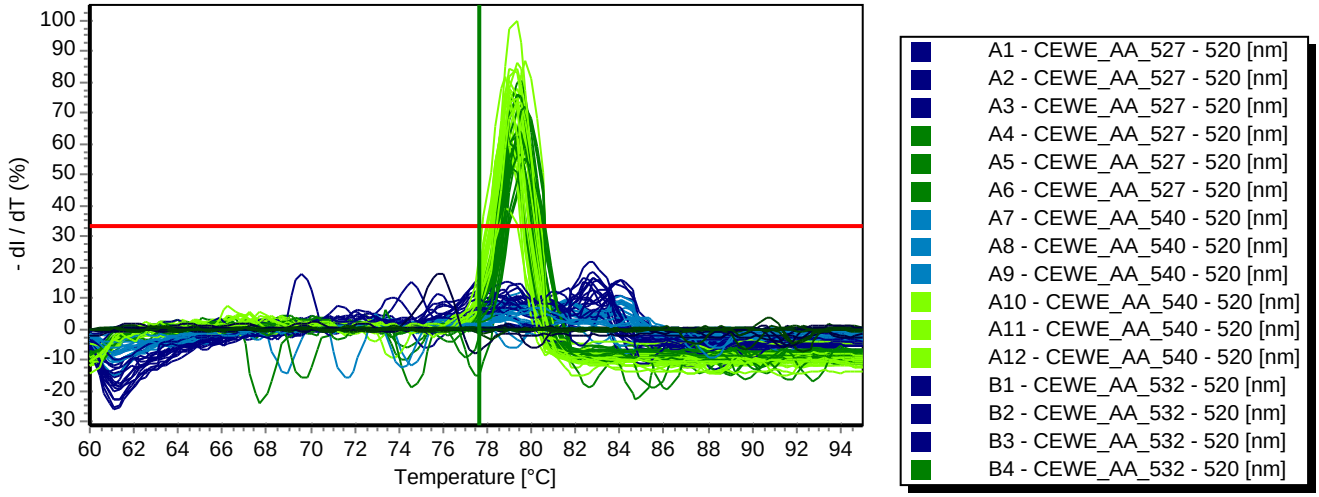
# Melting Curve SYBR

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| A1 | CEWE_AA_527 | 0 | | | | |
| A2 | CEWE_AA_527 | 0 | | | | |
| A3 | CEWE_AA_527 | 0 | | | | |
| A4 | CEWE_AA_527 | 1 | 79.6 | | | |
| A5 | CEWE_AA_527 | 1 | 79.7 | | | |
| A6 | CEWE_AA_527 | 1 | 79.8 | | | |
| A7 | CEWE_AA_540 | 0 | | | | |
| A8 | CEWE_AA_540 | 0 | | | | |
| A9 | CEWE_AA_540 | 0 | | | | |
| A10 | CEWE_AA_540 | 1 | 79.3 | | | |
| A11 | CEWE_AA_540 | 1 | 79.5 | | | |
| A12 | CEWE_AA_540 | 1 | 79.7 | | | |
| B1 | CEWE_AA_532 | 0 | | | | |
| B2 | CEWE_AA_532 | 0 | | | | |
| B3 | CEWE_AA_532 | 0 | | | | |
| B4 | CEWE_AA_532 | 1 | 79.5 | | | |
| B5 | CEWE_AA_532 | 1 | 79.7 | | | |
| B6 | CEWE_AA_532 | 1 | 79.8 | | | |
| B7 | CEWE_AA_543 | 0 | | | | |
| B8 | CEWE_AA_543 | 0 | | | | |
| B9 | CEWE_AA_543 | 0 | | | | |
| B10 | CEWE_AA_543 | 1 | 79.0 | | | |
| B11 | CEWE_AA_543 | 1 | 79.2 | | | |
| B12 | CEWE_AA_543 | 1 | 79.4 | | | |
| C1 | CEWE_AA_536 | 0 | | | | |
| C2 | CEWE_AA_536 | 0 | | | | |
| C3 | CEWE_AA_536 | 0 | | | | |
| C4 | CEWE_AA_536 | 1 | 79.3 | | | |
| C5 | CEWE_AA_536 | 1 | 79.5 | | | |
| C6 | CEWE_AA_536 | 1 | 79.5 | | | |
| C7 | CEWE_AA_552 | 0 | | | | |
| C8 | CEWE_AA_552 | 0 | | | | |
| C9 | CEWE_AA_552 | 0 | | | | |
| C10 | CEWE_AA_552 | 1 | 78.9 | | | |
| C11 | CEWE_AA_552 | 1 | 79.1 | | | |
| C12 | CEWE_AA_552 | 1 | 79.3 | | | |

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| D1 | CEWE_AA_538 | 0 | | | | |
| D2 | CEWE_AA_538 | 0 | | | | |
| D3 | CEWE_AA_538 | 0 | | | | |
| D4 | CEWE_AA_538 | 1 | 79.2 | | | |
| D5 | CEWE_AA_538 | 1 | 79.5 | | | |
| D6 | CEWE_AA_538 | 1 | 79.5 | | | |
| D7 | CEWE_AA_563 | 0 | | | | |
| D8 | CEWE_AA_563 | 0 | | | | |
| D9 | CEWE_AA_563 | 0 | | | | |
| D10 | CEWE_AA_563 | 1 | 78.8 | | | |
| D11 | CEWE_AA_563 | 1 | 79.0 | | | |
| D12 | CEWE_AA_563 | 1 | 79.2 | | | |
| E1 | CEWE_AA_550 | 0 | | | | |
| E2 | CEWE_AA_550 | 0 | | | | |
| E3 | CEWE_AA_550 | 0 | | | | |
| E4 | CEWE_AA_550 | 1 | 79.1 | | | |
| E5 | CEWE_AA_550 | 1 | 79.4 | | | |
| E6 | CEWE_AA_550 | 1 | 79.4 | | | |
| E7 | CEWE_AA_659 | 0 | | | | |
| E8 | CEWE_AA_659 | 0 | | | | |
| E9 | CEWE_AA_659 | 0 | | | | |
| E10 | CEWE_AA_659 | 1 | 78.8 | | | |
| E11 | CEWE_AA_659 | 1 | 78.9 | | | |
| E12 | CEWE_AA_659 | 1 | 79.2 | | | |
| F1 | CEWE_AA_652? | 0 | | | | |
| F2 | CEWE_AA_652? | 0 | | | | |
| F3 | CEWE_AA_652? | 0 | | | | |
| F4 | CEWE_AA_652? | 1 | 79.1 | | | |
| F5 | CEWE_AA_652? | 1 | 79.4 | | | |
| F6 | CEWE_AA_652? | 1 | 79.5 | | | |
| F7 | CEWE_AA_564 | 0 | | | | |
| F8 | CEWE_AA_564 | 0 | | | | |
| F9 | CEWE_AA_564 | 0 | | | | |
| F10 | CEWE_AA_564 | 1 | 78.9 | | | |
| F11 | CEWE_AA_564 | 1 | 79.2 | | | |
| F12 | CEWE_AA_564 | 1 | 79.4 | | | |
| G1 | CEWE_AA_674 | 0 | | | | |
| G2 | CEWE_AA_674 | 0 | | | | |
| G3 | CEWE_AA_674 | 0 | | | | |
| G4 | CEWE_AA_674 | 1 | 79.5 | | | |

| Pos | Name | No. Tm SYBR | Tm x (°C) SYBR | Tm y (°C) SYBR | Mean SYBR | Dev. SYBR |
|---|---|---|---|---|---|---|
| G5 | CEWE_AA_674 | 1 | 79.7 | | | |
| G6 | CEWE_AA_674 | 1 | 79.7 | | | |
| G7 | CEWE_AA_567 | 0 | | | | |
| G8 | CEWE_AA_567 | 0 | | | | |
| G9 | CEWE_AA_567 | 0 | | | | |
| G10 | CEWE_AA_567 | 1 | 78.8 | | | |
| G11 | CEWE_AA_567 | 1 | 79.0 | | | |
| G12 | CEWE_AA_567 | 1 | 79.2 | | | |
| 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%