

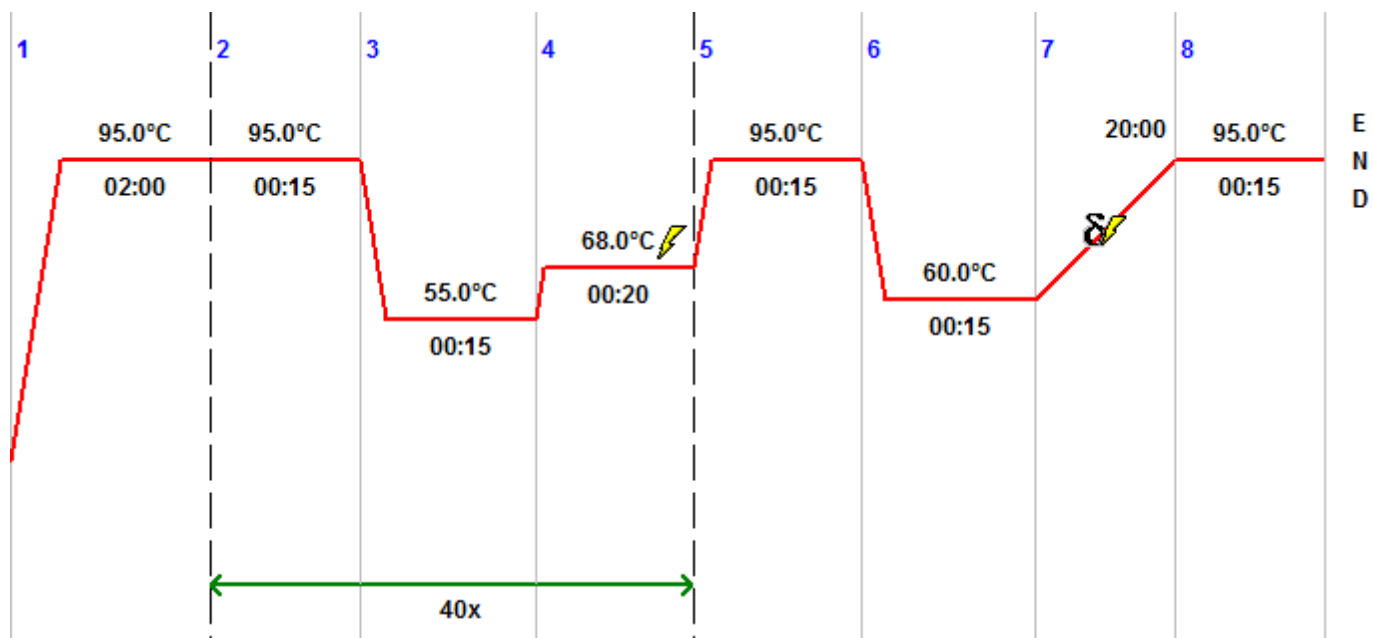
## Document information

Software:	realplex 2.2	
File Name:	EPPENDORF\Svenja\cecum_plate1.2	
Printed by:	EPPENDORF	
Created:	Dec/18/2018 14:14	
Serial No. Thermo Module:	6325 30387	
Serial No. realplex Module.:	630011465	
Acquisition Start Time:	EPPENDORF	Dec/18/2018 14:18
Acquisition End Time:	EPPENDORF	Dec/18/2018 15:46
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_plate1.2	Quantification	Dec/18/2018 15:55
	Melting Curve	Dec/18/2018 15:51
Inverted Data:	OFF	
Comment:		

## Plate layout

	1	2	3	4	5	6	7	8	9	10	11	12
A	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00
B	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00
C	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00
D	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00
E	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00
F	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00
G	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00	CEWE_... 1: 1.00
H	NTC	NTC	NTC	NTC	NTC	NTC	water	water	water	water	water	water

## PCR Program

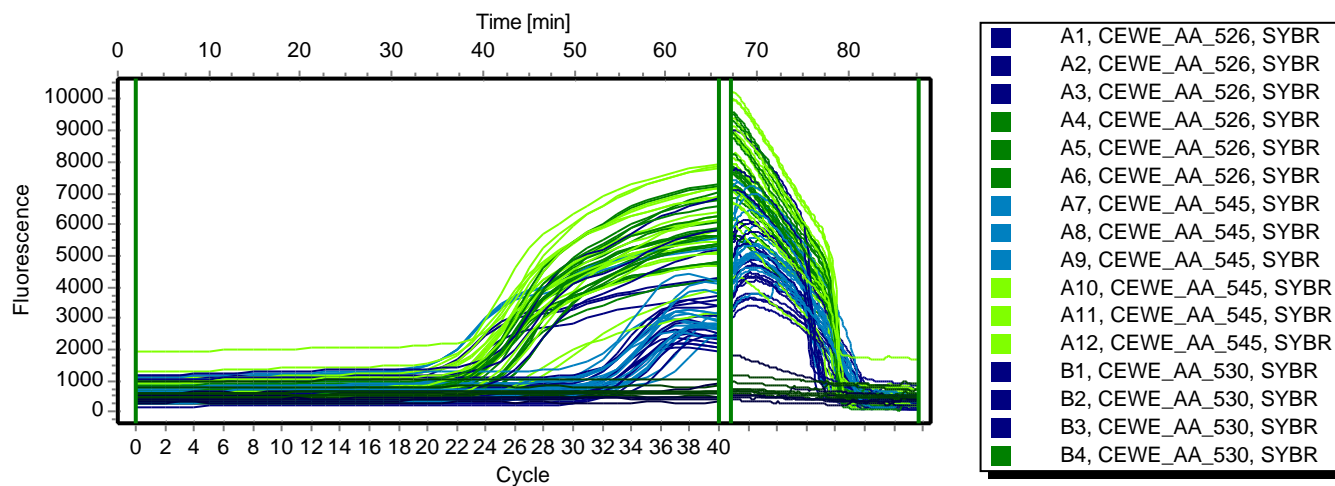


## Program Header

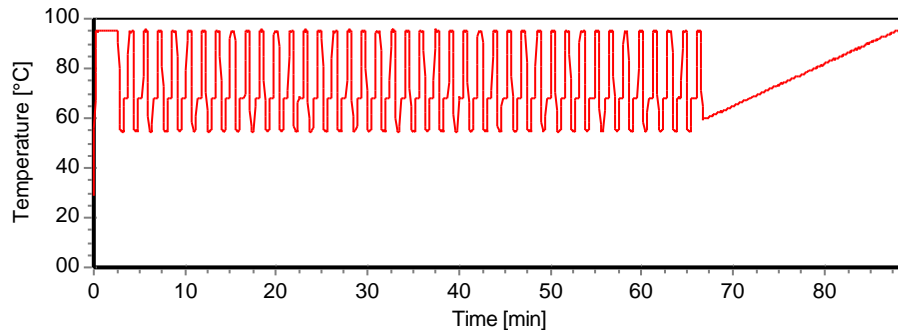
Lid Temp	105 °C	TSP Heated Lid	Yes
Temp. Mode	Standard	Switch off lid at low block temp	No
Impulse	No	Simulate Mastercycler gradient	No

## Raw Data SYBR







































































### Fluorescence Profile







































































































### Temperature Profile



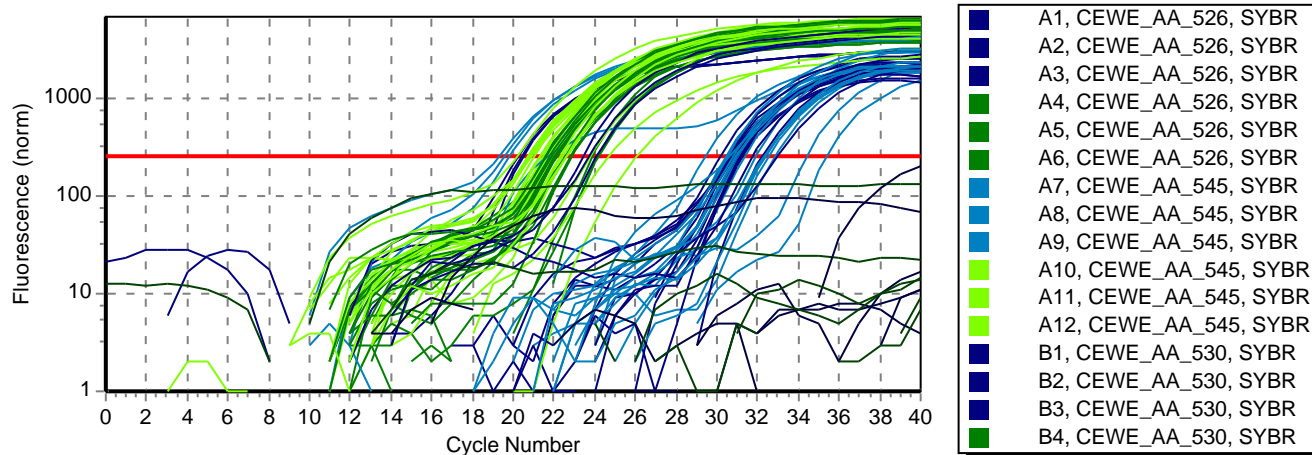
## Quantification SYBR

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
  A1	CEWE_AA_526	30.65	30.65	0.08	1.00			eimeria
  A2	CEWE_AA_526	30.73	30.65	0.08	1.00			eimeria
  A3	CEWE_AA_526	30.57	30.65	0.08	1.00			eimeria
  A4	CEWE_AA_526	22.15	22.10	0.04	1.00			mouse
  A5	CEWE_AA_526	22.09	22.10	0.04	1.00			mouse
  A6	CEWE_AA_526	22.06	22.10	0.04	1.00			mouse
  A7	CEWE_AA_545	35.36	34.19	1.29	1.00			eimeria
  A8	CEWE_AA_545	34.39	34.19	1.29	1.00			eimeria
  A9	CEWE_AA_545	32.81	34.19	1.29	1.00			eimeria
  A10	CEWE_AA_545	22.42	21.96	0.41	1.00			mouse
  A11	CEWE_AA_545	21.63	21.96	0.41	1.00			mouse
  A12	CEWE_AA_545	21.82	21.96	0.41	1.00			mouse
  B1	CEWE_AA_530	20.23	20.37	0.13	1.00			eimeria
  B2	CEWE_AA_530	20.39	20.37	0.13	1.00			eimeria
  B3	CEWE_AA_530	20.50	20.37	0.13	1.00			eimeria
  B4	CEWE_AA_530	21.63	21.66	0.09	1.00			mouse
  B5	CEWE_AA_530	21.75	21.66	0.09	1.00			mouse
  B6	CEWE_AA_530	21.58	21.66	0.09	1.00			mouse
  B7	CEWE_AA_561	19.81	19.53	0.27	1.00			eimeria
  B8	CEWE_AA_561	19.51	19.53	0.27	1.00			eimeria
  B9	CEWE_AA_561	19.27	19.53	0.27	1.00			eimeria
  B10	CEWE_AA_561	20.92	20.84	0.10	1.00			mouse
  B11	CEWE_AA_561	20.73	20.84	0.10	1.00			mouse
  B12	CEWE_AA_561	20.87	20.84	0.10	1.00			mouse
  C1	CEWE_AA_533	30.82	31.02	0.20	1.00			eimeria
  C2	CEWE_AA_533	31.22	31.02	0.20	1.00			eimeria
  C3	CEWE_AA_533	31.03	31.02	0.20	1.00			eimeria
  C4	CEWE_AA_533	22.78	22.47	0.35	1.00			mouse
  C5	CEWE_AA_533	22.54	22.47	0.35	1.00			mouse
  C6	CEWE_AA_533	22.08	22.47	0.35	1.00			mouse
  C7	CEWE_AA_547	31.12	31.14	0.20	1.00			eimeria
  C8	CEWE_AA_547	31.36	31.14	0.20	1.00			eimeria
  C9	CEWE_AA_547	30.96	31.14	0.20	1.00			eimeria
  C10	CEWE_AA_547	21.93	21.71	0.22	1.00			mouse
  C11	CEWE_AA_547	21.49	21.71	0.22	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_547	21.73	21.71	0.22	1.00			mouse
  D1	CEWE_AA_534	32.20	31.53	0.58	1.00			eimeria
  D2	CEWE_AA_534	31.25	31.53	0.58	1.00			eimeria
  D3	CEWE_AA_534	31.14	31.53	0.58	1.00			eimeria
  D4	CEWE_AA_534	24.18	24.04	0.16	1.00			mouse
  D5	CEWE_AA_534	24.07	24.04	0.16	1.00			mouse
  D6	CEWE_AA_534	23.86	24.04	0.16	1.00			mouse
  D7	CEWE_AA_548	29.42	27.17	4.80	1.00			eimeria
  D8	CEWE_AA_548	30.43	27.17	4.80	1.00			eimeria
  D9	CEWE_AA_548	21.66	27.17	4.80	1.00			eimeria
  D10	CEWE_AA_548	21.34	21.22	0.18	1.00			mouse
  D11	CEWE_AA_548	21.02	21.22	0.18	1.00			mouse
  D12	CEWE_AA_548	21.30	21.22	0.18	1.00			mouse
  E1	CEWE_AA_541	30.73	30.48	0.29	1.00			eimeria
  E2	CEWE_AA_541	30.54	30.48	0.29	1.00			eimeria
  E3	CEWE_AA_541	30.17	30.48	0.29	1.00			eimeria
  E4	CEWE_AA_541	22.02	21.85	0.20	1.00			mouse
  E5	CEWE_AA_541	21.89	21.85	0.20	1.00			mouse
  E6	CEWE_AA_541	21.63	21.85	0.20	1.00			mouse
  E7	CEWE_AA_557	32.41	32.29	0.32	1.00			eimeria
  E8	CEWE_AA_557	31.93	32.29	0.32	1.00			eimeria
  E9	CEWE_AA_557	32.53	32.29	0.32	1.00			eimeria
  E10	CEWE_AA_557	26.07	24.83	1.17	1.00			mouse
  E11	CEWE_AA_557	23.74	24.83	1.17	1.00			mouse
  E12	CEWE_AA_557	24.68	24.83	1.17	1.00			mouse
  F1	CEWE_AA_535	32.92	31.95	0.89	1.00			eimeria
  F2	CEWE_AA_535	31.75	31.95	0.89	1.00			eimeria
  F3	CEWE_AA_535	31.17	31.95	0.89	1.00			eimeria
  F4	CEWE_AA_535	22.84	22.75	0.18	1.00			mouse
  F5	CEWE_AA_535	22.86	22.75	0.18	1.00			mouse
  F6	CEWE_AA_535	22.54	22.75	0.18	1.00			mouse
  F7	CEWE_AA_553	30.94	30.76	0.20	1.00			eimeria
  F8	CEWE_AA_553	30.54	30.76	0.20	1.00			eimeria
  F9	CEWE_AA_553	30.80	30.76	0.20	1.00			eimeria
  F10	CEWE_AA_553	20.78	20.55	0.33	1.00			mouse
  F11	CEWE_AA_553	20.17	20.55	0.33	1.00			mouse
  F12	CEWE_AA_553	20.71	20.55	0.33	1.00			mouse
  G1	CEWE_AA_542	24.05	23.71	0.33	1.00			eimeria
  G2	CEWE_AA_542	23.68	23.71	0.33	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_542	23.39	23.71	0.33	1.00			eimeria
 G4	CEWE_AA_542	22.11	22.02	0.20	1.00			mouse
 G5	CEWE_AA_542	22.16	22.02	0.20	1.00			mouse
 G6	CEWE_AA_542	21.80	22.02	0.20	1.00			mouse
 G7	CEWE_AA_560	32.36	31.76	0.98	1.00			eimeria
 G8	CEWE_AA_560	30.63	31.76	0.98	1.00			eimeria
 G9	CEWE_AA_560	32.30	31.76	0.98	1.00			eimeria
 G10	CEWE_AA_560	22.58	22.49	0.16	1.00			mouse
 G11	CEWE_AA_560	22.30	22.49	0.16	1.00			mouse
 G12	CEWE_AA_560	22.59	22.49	0.16	1.00			mouse
 H1	NTC	-			-			eimeria
 H2	NTC	-			-			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



## Standard curve















































































Slope - R<sup>2</sup> -





















Y-Intercept - Efficiency -



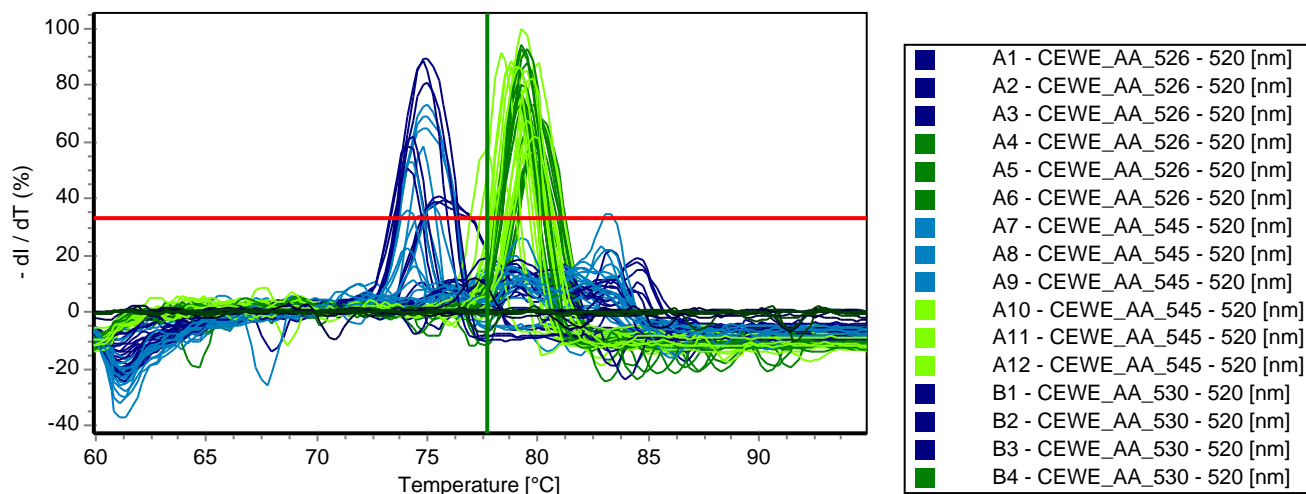
## Melting Curve SYBR

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 A1	CEWE_AA_526	0				
 A2	CEWE_AA_526	0				
 A3	CEWE_AA_526	0				
 A4	CEWE_AA_526	1	80.0			
 A5	CEWE_AA_526	1	80.1			
 A6	CEWE_AA_526	1	80.3			
 A7	CEWE_AA_545	1	74.8			
 A8	CEWE_AA_545	0				
 A9	CEWE_AA_545	1	74.7			
 A10	CEWE_AA_545	1	79.0			
 A11	CEWE_AA_545	1	79.9			
 A12	CEWE_AA_545	1	80.1			
 B1	CEWE_AA_530	1	75.4			
 B2	CEWE_AA_530	1	75.8			
 B3	CEWE_AA_530	1	75.5			
 B4	CEWE_AA_530	1	79.6			
 B5	CEWE_AA_530	1	79.9			
 B6	CEWE_AA_530	1	80.1			
 B7	CEWE_AA_561	1	75.0			
 B8	CEWE_AA_561	1	75.0			
 B9	CEWE_AA_561	1	74.9			
 B10	CEWE_AA_561	1	78.7			
 B11	CEWE_AA_561	1	79.4			
 B12	CEWE_AA_561	1	79.7			
 C1	CEWE_AA_533	0				
 C2	CEWE_AA_533	0				
 C3	CEWE_AA_533	0				
 C4	CEWE_AA_533	1	79.7			
 C5	CEWE_AA_533	1	79.8			
 C6	CEWE_AA_533	1	79.9			
 C7	CEWE_AA_547	0				
 C8	CEWE_AA_547	0				
 C9	CEWE_AA_547	0				
 C10	CEWE_AA_547	1	79.0			
 C11	CEWE_AA_547	1	79.4			
 C12	CEWE_AA_547	1	79.6			

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 D1	CEWE_AA_534	0				
 D2	CEWE_AA_534	0				
 D3	CEWE_AA_534	0				
 D4	CEWE_AA_534	1	79.1			
 D5	CEWE_AA_534	1	79.2			
 D6	CEWE_AA_534	1	79.3			
 D7	CEWE_AA_548	0				
 D8	CEWE_AA_548	0				
 D9	CEWE_AA_548	0				
 D10	CEWE_AA_548	1	78.8			
 D11	CEWE_AA_548	1	79.4			
 D12	CEWE_AA_548	1	79.7			
 E1	CEWE_AA_541	1	74.2			
 E2	CEWE_AA_541	1	74.2			
 E3	CEWE_AA_541	1	74.3			
 E4	CEWE_AA_541	1	79.0			
 E5	CEWE_AA_541	1	79.2			
 E6	CEWE_AA_541	1	79.3			
 E7	CEWE_AA_557	0				
 E8	CEWE_AA_557	1	74.3			
 E9	CEWE_AA_557	1	74.1			
 E10	CEWE_AA_557	1	77.6			
 E11	CEWE_AA_557	1	78.4			
 E12	CEWE_AA_557	1	78.4			
 F1	CEWE_AA_535	0				
 F2	CEWE_AA_535	0				
 F3	CEWE_AA_535	0				
 F4	CEWE_AA_535	1	79.2			
 F5	CEWE_AA_535	1	79.4			
 F6	CEWE_AA_535	1	79.5			
 F7	CEWE_AA_553	0				
 F8	CEWE_AA_553	1	83.2			
 F9	CEWE_AA_553	0				
 F10	CEWE_AA_553	1	79.0			
 F11	CEWE_AA_553	1	79.3			
 F12	CEWE_AA_553	1	79.6			
 G1	CEWE_AA_542	1	74.8			
 G2	CEWE_AA_542	1	75.0			
 G3	CEWE_AA_542	1	74.9			
 G4	CEWE_AA_542	1	79.2			

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 G5	CEWE_AA_542	1	79.4			
 G6	CEWE_AA_542	1	79.5			
 G7	CEWE_AA_560	0				
 G8	CEWE_AA_560	1	75.2			
 G9	CEWE_AA_560	0				
 G10	CEWE_AA_560	1	79.1			
 G11	CEWE_AA_560	1	79.7			
 G12	CEWE_AA_560	1	79.9			
 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%

