

## Document information

Software:	realplex 2.2	
File Name:	EPPENDORF\Yasmin_Crypto_Projec samples\assay05.09	
Printed by:	EPPENDORF	
Created:	Sep/05/2018 10:20	
Serial No. Thermo Module:	6325 30387	
Serial No. realplex Module.:	630011465	
Acquisition Start Time:	EPPENDORF	Sep/05/2018 10:24
Acquisition End Time:	EPPENDORF	Sep/05/2018 11:52
Last updated:	EPPENDORF	Aug/09/2018 13:54
Background:	Sarstedt-20µl	Sep/12/2011 10:28
Color Calibration:	SYBR	Mar/12/2018 15:31
assay05.09	Quantification	Sep/05/2018 11:54
	Melting Curve	Sep/05/2018 11:54
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

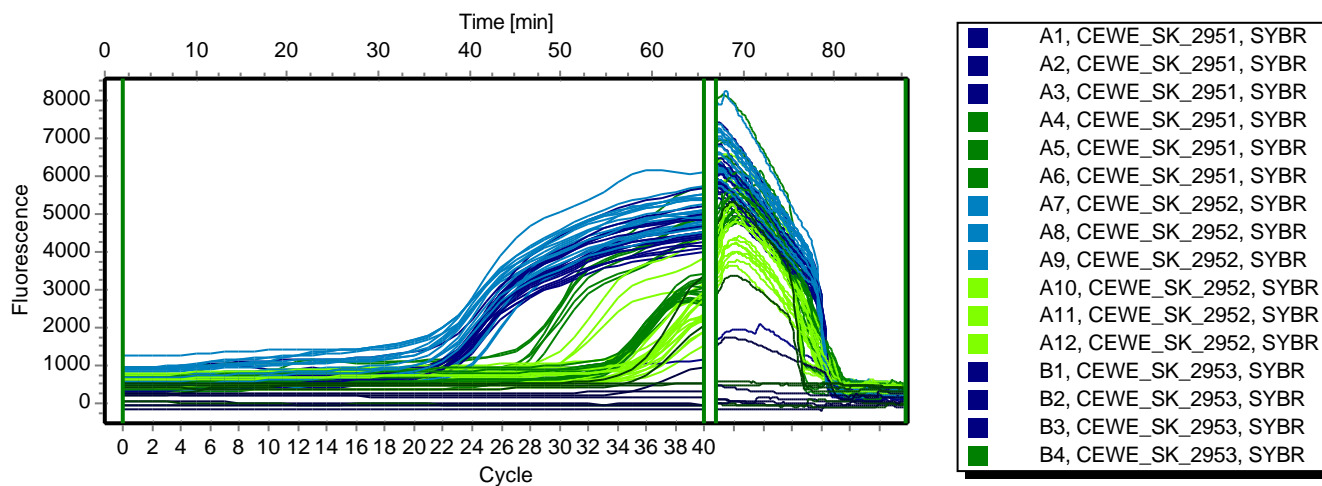


## Program Header

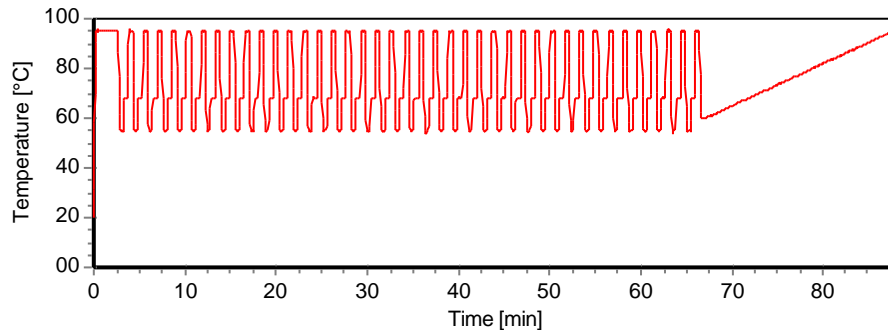
Lid Temp	105 °C	TSP Heated Lid	Yes
Temp. Mode	Standard	Switch off lid at low block temp	No
Impulse	No	Simulate Mastercycler gradient	No

## Raw Data SYBR







































































### Fluorescence Profile







































































































### Temperature Profile



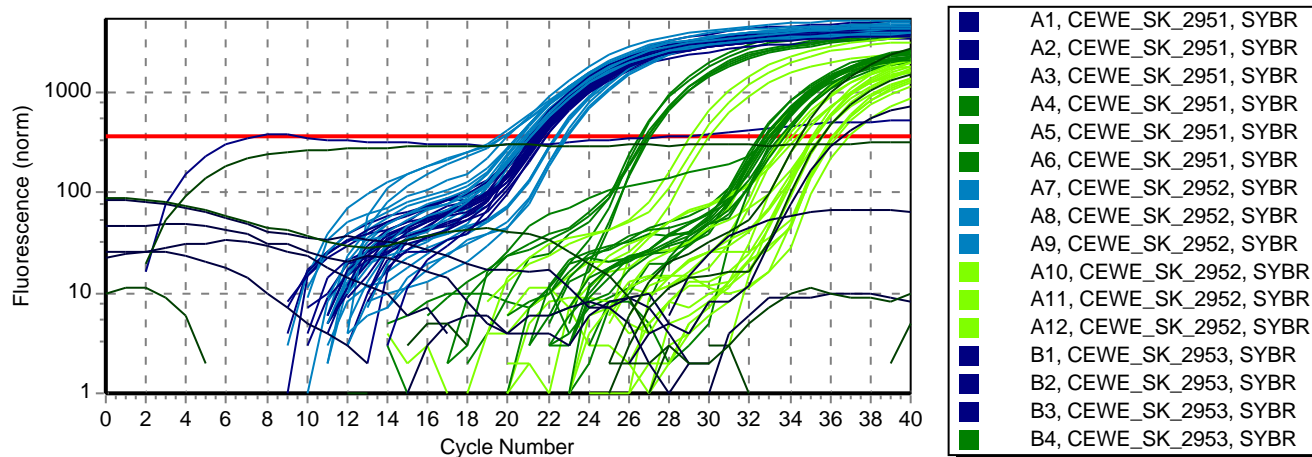
## Quantification SYBR

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
  A1	CEWE_SK_2951	21.70	21.52	0.18	1.00			mouse
  A2	CEWE_SK_2951	21.51	21.52	0.18	1.00			mouse
  A3	CEWE_SK_2951	21.35	21.52	0.18	1.00			mouse
  A4	CEWE_SK_2951	26.58	26.74	0.21	1.00			eimeria
  A5	CEWE_SK_2951	26.65	26.74	0.21	1.00			eimeria
  A6	CEWE_SK_2951	26.97	26.74	0.21	1.00			eimeria
  A7	CEWE_SK_2952	22.37	22.42	0.05	1.00			mouse
  A8	CEWE_SK_2952	22.41	22.42	0.05	1.00			mouse
  A9	CEWE_SK_2952	22.47	22.42	0.05	1.00			mouse
  A10	CEWE_SK_2952	35.09	36.13	0.95	1.00			eimeria
  A11	CEWE_SK_2952	36.36	36.13	0.95	1.00			eimeria
  A12	CEWE_SK_2952	36.95	36.13	0.95	1.00			eimeria
  B1	CEWE_SK_2953	29.00	23.95	4.39	1.00			mouse
  B2	CEWE_SK_2953	21.23	23.95	4.39	1.00			mouse
  B3	CEWE_SK_2953	21.60	23.95	4.39	1.00			mouse
  B4	CEWE_SK_2953	26.86	26.96	0.11	1.00			eimeria
  B5	CEWE_SK_2953	27.08	26.96	0.11	1.00			eimeria
  B6	CEWE_SK_2953	26.94	26.96	0.11	1.00			eimeria
  B7	CEWE_SK_2954	20.55	20.63	0.16	1.00			mouse
  B8	CEWE_SK_2954	20.81	20.63	0.16	1.00			mouse
  B9	CEWE_SK_2954	20.54	20.63	0.16	1.00			mouse
  B10	CEWE_SK_2954	29.10	29.59	0.46	1.00			eimeria
  B11	CEWE_SK_2954	30.01	29.59	0.46	1.00			eimeria
  B12	CEWE_SK_2954	29.65	29.59	0.46	1.00			eimeria
  C1	CEWE_SK_2955	21.47	21.57	0.10	1.00			mouse
  C2	CEWE_SK_2955	21.57	21.57	0.10	1.00			mouse
  C3	CEWE_SK_2955	21.66	21.57	0.10	1.00			mouse
  C4	CEWE_SK_2955	32.88	33.12	0.46	1.00			eimeria
  C5	CEWE_SK_2955	32.84	33.12	0.46	1.00			eimeria
  C6	CEWE_SK_2955	33.65	33.12	0.46	1.00			eimeria
  C7	CEWE_SK_2956	20.66	20.88	0.21	1.00			mouse
  C8	CEWE_SK_2956	20.91	20.88	0.21	1.00			mouse
  C9	CEWE_SK_2956	21.08	20.88	0.21	1.00			mouse
  C10	CEWE_SK_2956	33.01	33.54	0.47	1.00			eimeria
  C11	CEWE_SK_2956	33.68	33.54	0.47	1.00			eimeria

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
  C12	CEWE_SK_2956	33.93	33.54	0.47	1.00			eimeria
  D1	CEWE_SK_2957	21.76	21.81	0.09	1.00			mouse
  D2	CEWE_SK_2957	21.91	21.81	0.09	1.00			mouse
  D3	CEWE_SK_2957	21.75	21.81	0.09	1.00			mouse
  D4	CEWE_SK_2957	32.86	33.04	0.19	1.00			eimeria
  D5	CEWE_SK_2957	33.23	33.04	0.19	1.00			eimeria
  D6	CEWE_SK_2957	33.03	33.04	0.19	1.00			eimeria
  D7	CEWE_SK_2962	19.88	19.79	0.15	1.00			mouse
  D8	CEWE_SK_2962	19.62	19.79	0.15	1.00			mouse
  D9	CEWE_SK_2962	19.86	19.79	0.15	1.00			mouse
  D10	CEWE_SK_2962	34.15	34.60	0.58	1.00			eimeria
  D11	CEWE_SK_2962	35.25	34.60	0.58	1.00			eimeria
  D12	CEWE_SK_2962	34.41	34.60	0.58	1.00			eimeria
  E1	CEWE_SK_2963	21.00	21.17	0.15	1.00			mouse
  E2	CEWE_SK_2963	21.23	21.17	0.15	1.00			mouse
  E3	CEWE_SK_2963	21.29	21.17	0.15	1.00			mouse
  E4	CEWE_SK_2963	32.64	33.12	0.42	1.00			eimeria
  E5	CEWE_SK_2963	33.36	33.12	0.42	1.00			eimeria
  E6	CEWE_SK_2963	33.37	33.12	0.42	1.00			eimeria
  E7	CEWE_SK_2964	22.87	22.87	0.09	1.00			mouse
  E8	CEWE_SK_2964	22.78	22.87	0.09	1.00			mouse
  E9	CEWE_SK_2964	22.95	22.87	0.09	1.00			mouse
  E10	CEWE_SK_2964	35.60	35.66	0.44	1.00			eimeria
  E11	CEWE_SK_2964	35.25	35.66	0.44	1.00			eimeria
  E12	CEWE_SK_2964	36.13	35.66	0.44	1.00			eimeria
  F1	CEWE_SK_2965	21.41	21.35	0.15	1.00			mouse
  F2	CEWE_SK_2965	21.17	21.35	0.15	1.00			mouse
  F3	CEWE_SK_2965	21.46	21.35	0.15	1.00			mouse
  F4	CEWE_SK_2965	33.08	32.83	0.27	1.00			eimeria
  F5	CEWE_SK_2965	32.87	32.83	0.27	1.00			eimeria
  F6	CEWE_SK_2965	32.55	32.83	0.27	1.00			eimeria
  F7	CEWE_SK_2966	20.08	20.38	0.26	1.00			mouse
  F8	CEWE_SK_2966	20.51	20.38	0.26	1.00			mouse
  F9	CEWE_SK_2966	20.55	20.38	0.26	1.00			mouse
  F10	CEWE_SK_2966	36.19	35.86	0.52	1.00			eimeria
  F11	CEWE_SK_2966	35.26	35.86	0.52	1.00			eimeria
  F12	CEWE_SK_2966	36.12	35.86	0.52	1.00			eimeria
  G1	CEWE_SK_2967	21.60	21.74	0.14	1.00			mouse
  G2	CEWE_SK_2967	21.74	21.74	0.14	1.00			mouse

Pos	Name	Ct SYBR	Ct Mean SYBR	Ct Dev. SYBR	Amount SYBR [Copies]	Amount Mean SYBR	Amount Dev. SYBR	Target SYBR
 G3	CEWE_SK_2967	21.89	21.74	0.14	1.00			mouse
 G4	CEWE_SK_2967	33.57	33.48	0.34	1.00			eimeria
 G5	CEWE_SK_2967	33.77	33.48	0.34	1.00			eimeria
 G6	CEWE_SK_2967	33.11	33.48	0.34	1.00			eimeria
 G7	CEWE_SK_2968	21.16	21.08	0.10	1.00			mouse
 G8	CEWE_SK_2968	20.97	21.08	0.10	1.00			mouse
 G9	CEWE_SK_2968	21.12	21.08	0.10	1.00			mouse
 G10	CEWE_SK_2968	35.57	35.13	0.46	1.00			eimeria
 G11	CEWE_SK_2968	35.18	35.13	0.46	1.00			eimeria
 G12	CEWE_SK_2968	34.65	35.13	0.46	1.00			eimeria
 H1	NTC	-			-			mouse
 H2	NTC	-			-			mouse
 H3	NTC	-			-			mouse
 H4	NTC	-			-			eimeria
 H5	NTC	-			-			eimeria
 H6	NTC	-			-			eimeria
 H7	water	-			-			mouse
 H8	water	36.71			-			mouse
 H9	water	-			-			mouse
 H10	water	34.49	35.04	0.78	-			eimeria
 H11	water	-	35.04	0.78	-			eimeria
 H12	water	35.58	35.04	0.78	-			eimeria

## Amplification Plot











## Standard curve































































Slope	-	R <sup>2</sup>	-
Y-Intercept	-	Efficiency	-



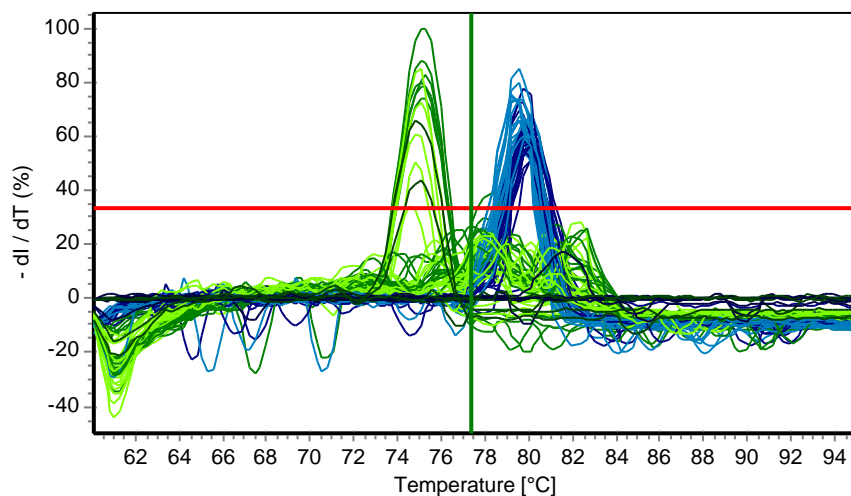
## Melting Curve SYBR

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 A1	CEWE_SK_2951	1	80.4			
 A2	CEWE_SK_2951	1	80.3			
 A3	CEWE_SK_2951	1	80.2			
 A4	CEWE_SK_2951	1	75.1			
 A5	CEWE_SK_2951	1	75.2			
 A6	CEWE_SK_2951	1	75.3			
 A7	CEWE_SK_2952	1	80.2			
 A8	CEWE_SK_2952	1	80.0			
 A9	CEWE_SK_2952	1	80.0			
 A10	CEWE_SK_2952	1	74.8			
 A11	CEWE_SK_2952	0				
 A12	CEWE_SK_2952	0				
 B1	CEWE_SK_2953	0				
 B2	CEWE_SK_2953	1	80.2			
 B3	CEWE_SK_2953	1	80.1			
 B4	CEWE_SK_2953	1	75.1			
 B5	CEWE_SK_2953	1	75.2			
 B6	CEWE_SK_2953	1	75.1			
 B7	CEWE_SK_2954	1	80.0			
 B8	CEWE_SK_2954	1	79.9			
 B9	CEWE_SK_2954	1	79.6			
 B10	CEWE_SK_2954	1	75.0			
 B11	CEWE_SK_2954	1	74.9			
 B12	CEWE_SK_2954	1	75.0			
 C1	CEWE_SK_2955	1	79.8			
 C2	CEWE_SK_2955	1	79.7			
 C3	CEWE_SK_2955	1	79.6			
 C4	CEWE_SK_2955	0				
 C5	CEWE_SK_2955	0				
 C6	CEWE_SK_2955	0				
 C7	CEWE_SK_2956	1	79.7			
 C8	CEWE_SK_2956	1	79.6			
 C9	CEWE_SK_2956	1	79.5			
 C10	CEWE_SK_2956	1	74.6			
 C11	CEWE_SK_2956	0				
 C12	CEWE_SK_2956	0				

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 D1	CEWE_SK_2957	1	79.9			
 D2	CEWE_SK_2957	1	79.8			
 D3	CEWE_SK_2957	1	79.6			
 D4	CEWE_SK_2957	0				
 D5	CEWE_SK_2957	1	78.2			
 D6	CEWE_SK_2957	0				
 D7	CEWE_SK_2962	1	79.5			
 D8	CEWE_SK_2962	1	79.4			
 D9	CEWE_SK_2962	1	79.3			
 D10	CEWE_SK_2962	0				
 D11	CEWE_SK_2962	0				
 D12	CEWE_SK_2962	0				
 E1	CEWE_SK_2963	1	79.9			
 E2	CEWE_SK_2963	1	79.8			
 E3	CEWE_SK_2963	1	79.7			
 E4	CEWE_SK_2963	0				
 E5	CEWE_SK_2963	0				
 E6	CEWE_SK_2963	0				
 E7	CEWE_SK_2964	1	79.6			
 E8	CEWE_SK_2964	1	79.6			
 E9	CEWE_SK_2964	1	79.5			
 E10	CEWE_SK_2964	0				
 E11	CEWE_SK_2964	0				
 E12	CEWE_SK_2964	0				
 F1	CEWE_SK_2965	1	79.9			
 F2	CEWE_SK_2965	1	79.9			
 F3	CEWE_SK_2965	1	79.8			
 F4	CEWE_SK_2965	0				
 F5	CEWE_SK_2965	0				
 F6	CEWE_SK_2965	0				
 F7	CEWE_SK_2966	1	79.5			
 F8	CEWE_SK_2966	1	79.4			
 F9	CEWE_SK_2966	1	79.3			
 F10	CEWE_SK_2966	0				
 F11	CEWE_SK_2966	0				
 F12	CEWE_SK_2966	0				
 G1	CEWE_SK_2967	1	80.1			
 G2	CEWE_SK_2967	1	80.0			
 G3	CEWE_SK_2967	1	80.0			
 G4	CEWE_SK_2967	0				

Pos	Name	No. Tm SYBR	Tm x (°C) SYBR	Tm y (°C) SYBR	Mean SYBR	Dev. SYBR
 G5	CEWE_SK_2967	0				
 G6	CEWE_SK_2967	0				
 G7	CEWE_SK_2968	1	80.0			
 G8	CEWE_SK_2968	1	79.9			
 G9	CEWE_SK_2968	1	79.8			
 G10	CEWE_SK_2968	0				
 G11	CEWE_SK_2968	0				
 G12	CEWE_SK_2968	0				
 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	1	74.9		74.9	0.1
 H11	water	0			74.9	
 H12	water	1	75.0		74.9	0.1

## Melting curve



- A1 - CEWE\_SK\_2951 - 520 [nm]
- A2 - CEWE\_SK\_2951 - 520 [nm]
- A3 - CEWE\_SK\_2951 - 520 [nm]
- A4 - CEWE\_SK\_2951 - 520 [nm]
- A5 - CEWE\_SK\_2951 - 520 [nm]
- A6 - CEWE\_SK\_2951 - 520 [nm]
- A7 - CEWE\_SK\_2952 - 520 [nm]
- A8 - CEWE\_SK\_2952 - 520 [nm]
- A9 - CEWE\_SK\_2952 - 520 [nm]
- A10 - CEWE\_SK\_2952 - 520 [nm]
- A11 - CEWE\_SK\_2952 - 520 [nm]
- A12 - CEWE\_SK\_2952 - 520 [nm]
- B1 - CEWE\_SK\_2953 - 520 [nm]
- B2 - CEWE\_SK\_2953 - 520 [nm]
- B3 - CEWE\_SK\_2953 - 520 [nm]
- B4 - CEWE\_SK\_2953 - 520 [nm]

Threshold 33%

