



# admin\_2020-06-08 12-15-49\_BR200768.pcrd

06/08/2020 13:51

## Report Information

**User:** BioRad/admin

**Data File Name:** admin\_2020-06-08 12-15-49\_BR200768.pcrd

**Data File Path:** C:\Users\user\Desktop\nCoV\SNUH-SD\20200608-1

**Well Group Name:** All Wells

**Report Differs from Last Save:** No

## Run Setup

### Run Information

**Run Date:** 06/08/2020 12:16

**Run User:** admin

**Run Type:** User-defined

**Plate File:** 20200608-1.pltd

**ID:**

**Notes:**

**Sample Volume:** 30

**Temperature Control Mode:** Calculated

**Lid Temperature:** 105

**Base Serial Number:** BR200768

**Optical Head Serial Number:** 787BR10428

### Protocol

**1:** 50.0°C for 15:00

**2:** 95.0°C for 3:00

**3:** 95.0°C for 0:05

**4:** 60.0°C for 0:40

**5:** GOTO 3, 4 more times

**6:** 95.0°C for 0:05

**7:** 60.0°C for 0:40

Plate Read

**8:** GOTO 6, 39 more times

## Plate Display

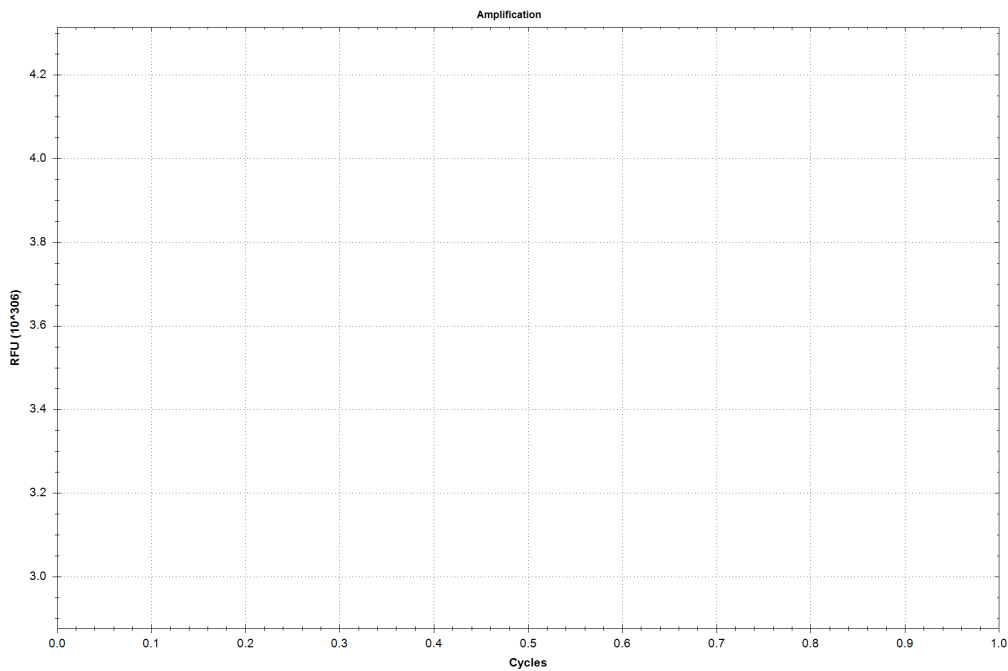
	1	2	3	4	5	6	7	8	9	10	11	12
A	Unk RdRP I.C. E 01-KYI	Unk RdRP I.C. E 09	Unk RdRP I.C. E 17		Unk RdRP I.C. E 22-YTH							
B	Unk RdRP I.C. E 02	Unk RdRP I.C. E 10	Unk RdRP I.C. E 18		Unk RdRP I.C. E 23-LBS							
C	Unk RdRP I.C. E 03	Unk RdRP I.C. E 11	Unk RdRP I.C. E 19		Unk RdRP I.C. E 24-CYJ							

Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
D	Unk RdRP I.C. E 04	Unk RdRP I.C. E 12	Unk RdRP I.C. E 20		Unk RdRP I.C. E 25-PHS- NAS							
E	Unk RdRP I.C. E 05	Unk RdRP I.C. E 13	Unk RdRP I.C. E 21		Unk RdRP I.C. E 26-PHS- SPU							
F	Unk RdRP I.C. E 06	Unk RdRP I.C. E 14			Unk RdRP I.C. E 27-JJH- SPU							
G	Unk RdRP I.C. E 07	Unk RdRP I.C. E 15										Neg RdRP I.C. E NC
H	Unk RdRP I.C. E 08	Unk RdRP I.C. E 16										Pos RdRP I.C. E PC

Quantification

Step #: 7  
Analysis Mode: Fluorophore  
Cq Determination: Single Threshold  
Baseline Method:  
FAM: Auto Calculated  
HEX: Auto Calculated  
Cy5: Auto Calculated  
Threshold Setting:  
FAM: 500.00, User Defined  
HEX: 500.00, User Defined  
Cy5: 684.21, Auto Calculated



Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	HEX	E	Unkn	01-KYI	N/A	0.00	0.000
B01	HEX	E	Unkn	02	N/A	0.00	0.000
C01	HEX	E	Unkn	03	N/A	0.00	0.000
D01	HEX	E	Unkn	04	N/A	0.00	0.000
E01	HEX	E	Unkn	05	N/A	0.00	0.000
F01	HEX	E	Unkn	06	N/A	0.00	0.000
G01	HEX	E	Unkn	07	N/A	0.00	0.000
H01	HEX	E	Unkn	08	N/A	0.00	0.000
A02	HEX	E	Unkn	09	N/A	0.00	0.000
B02	HEX	E	Unkn	10	N/A	0.00	0.000
C02	HEX	E	Unkn	11	N/A	0.00	0.000
D02	HEX	E	Unkn	12	N/A	0.00	0.000
E02	HEX	E	Unkn	13	N/A	0.00	0.000
F02	HEX	E	Unkn	14	N/A	0.00	0.000
G02	HEX	E	Unkn	15	N/A	0.00	0.000
H02	HEX	E	Unkn	16	N/A	0.00	0.000
A03	HEX	E	Unkn	17	N/A	0.00	0.000
B03	HEX	E	Unkn	18	N/A	0.00	0.000
C03	HEX	E	Unkn	19	N/A	0.00	0.000
D03	HEX	E	Unkn	20	N/A	0.00	0.000
E03	HEX	E	Unkn	21	N/A	0.00	0.000
A05	HEX	E	Unkn	22-YTH	N/A	0.00	0.000
B05	HEX	E	Unkn	23-LBS	N/A	0.00	0.000
C05	HEX	E	Unkn	24-CYJ	14.66	14.66	0.000
D05	HEX	E	Unkn	25-PHS-NAS	30.91	30.91	0.000
E05	HEX	E	Unkn	26-PHS-SPU	17.66	17.66	0.000
F05	HEX	E	Unkn	27-JJH-SPU	30.47	30.47	0.000
G12	HEX	E	Neg Ctrl	NC	N/A	0.00	0.000
H12	HEX	E	Pos Ctrl	PC	25.17	25.17	0.000
A01	FAM	RdRP	Unkn	01-KYI	N/A	0.00	0.000
B01	FAM	RdRP	Unkn	02	N/A	0.00	0.000
C01	FAM	RdRP	Unkn	03	N/A	0.00	0.000
D01	FAM	RdRP	Unkn	04	N/A	0.00	0.000
E01	FAM	RdRP	Unkn	05	N/A	0.00	0.000
F01	FAM	RdRP	Unkn	06	N/A	0.00	0.000
G01	FAM	RdRP	Unkn	07	N/A	0.00	0.000
H01	FAM	RdRP	Unkn	08	N/A	0.00	0.000
A02	FAM	RdRP	Unkn	09	N/A	0.00	0.000
B02	FAM	RdRP	Unkn	10	N/A	0.00	0.000
C02	FAM	RdRP	Unkn	11	N/A	0.00	0.000
D02	FAM	RdRP	Unkn	12	N/A	0.00	0.000
E02	FAM	RdRP	Unkn	13	N/A	0.00	0.000
F02	FAM	RdRP	Unkn	14	N/A	0.00	0.000
G02	FAM	RdRP	Unkn	15	N/A	0.00	0.000
H02	FAM	RdRP	Unkn	16	N/A	0.00	0.000
A03	FAM	RdRP	Unkn	17	N/A	0.00	0.000
B03	FAM	RdRP	Unkn	18	N/A	0.00	0.000

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
C03	FAM	RdRP	Unkn	19	N/A	0.00	0.000
D03	FAM	RdRP	Unkn	20	N/A	0.00	0.000
E03	FAM	RdRP	Unkn	21	N/A	0.00	0.000
A05	FAM	RdRP	Unkn	22-YTH	N/A	0.00	0.000
B05	FAM	RdRP	Unkn	23-LBS	N/A	0.00	0.000
C05	FAM	RdRP	Unkn	24-CYJ	13.69	13.69	0.000
D05	FAM	RdRP	Unkn	25-PHS-NAS	30.68	30.68	0.000
E05	FAM	RdRP	Unkn	26-PHS-SPU	17.26	17.26	0.000
F05	FAM	RdRP	Unkn	27-JJH-SPU	30.45	30.45	0.000
G12	FAM	RdRP	Neg Ctrl	NC	N/A	0.00	0.000
H12	FAM	RdRP	Pos Ctrl	PC	23.99	23.99	0.000
A01	Cy5	I.C.	Unkn	01-KYI	22.96	22.96	0.000
B01	Cy5	I.C.	Unkn	02	22.62	22.62	0.000
C01	Cy5	I.C.	Unkn	03	22.61	22.61	0.000
D01	Cy5	I.C.	Unkn	04	22.56	22.56	0.000
E01	Cy5	I.C.	Unkn	05	22.54	22.54	0.000
F01	Cy5	I.C.	Unkn	06	22.54	22.54	0.000
G01	Cy5	I.C.	Unkn	07	22.62	22.62	0.000
H01	Cy5	I.C.	Unkn	08	22.41	22.41	0.000
A02	Cy5	I.C.	Unkn	09	22.85	22.85	0.000
B02	Cy5	I.C.	Unkn	10	22.56	22.56	0.000
C02	Cy5	I.C.	Unkn	11	22.61	22.61	0.000
D02	Cy5	I.C.	Unkn	12	22.84	22.84	0.000
E02	Cy5	I.C.	Unkn	13	22.43	22.43	0.000
F02	Cy5	I.C.	Unkn	14	22.48	22.48	0.000
G02	Cy5	I.C.	Unkn	15	22.74	22.74	0.000
H02	Cy5	I.C.	Unkn	16	22.50	22.50	0.000
A03	Cy5	I.C.	Unkn	17	22.71	22.71	0.000
B03	Cy5	I.C.	Unkn	18	22.51	22.51	0.000
C03	Cy5	I.C.	Unkn	19	22.91	22.91	0.000
D03	Cy5	I.C.	Unkn	20	22.66	22.66	0.000
E03	Cy5	I.C.	Unkn	21	22.75	22.75	0.000
A05	Cy5	I.C.	Unkn	22-YTH	22.82	22.82	0.000
B05	Cy5	I.C.	Unkn	23-LBS	22.38	22.38	0.000
C05	Cy5	I.C.	Unkn	24-CYJ	32.49	32.49	0.000
D05	Cy5	I.C.	Unkn	25-PHS-NAS	22.54	22.54	0.000
E05	Cy5	I.C.	Unkn	26-PHS-SPU	22.82	22.82	0.000
F05	Cy5	I.C.	Unkn	27-JJH-SPU	21.44	21.44	0.000
G12	Cy5	I.C.	Neg Ctrl	NC	N/A	0.00	0.000
H12	Cy5	I.C.	Pos Ctrl	PC	N/A	0.00	0.000

Bar Chart

Normalized expression analysis is not possible, no target is assigned as a reference in the Experiment Settings.

Target Names

Name	Full Name	Reference	Auto Efficiency	Efficiency
E	E	False	Yes	100.0%
I.C.	I.C.	False	Yes	100.0%
RdRP	RdRP	False	Yes	100.0%

Sample Names

Name	Full Name	Control
01-KYI	01-KYI	No
02	02	No
03	03	No
04	04	No
05	05	No
06	06	No
07	07	No
08	08	No
09	09	No
10	10	No
11	11	No
12	12	No
13	13	No
14	14	No
15	15	No
16	16	No
17	17	No
18	18	No
19	19	No
20	20	No
21	21	No
22-YTH	22-YTH	No
23-LBS	23-LBS	No
24-CYJ	24-CYJ	No
25-PHS-NAS	25-PHS-NAS	No
26-PHS-SPU	26-PHS-SPU	No
27-JJH-SPU	27-JJH-SPU	No
PC	PC	No

Gene Expression - Bar Chart Data

Target	Sample	Ctrl	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM
E	01-KYI		N/A	N/A	N/A	N/A	N/A
E	02		N/A	N/A	N/A	N/A	N/A
E	03		N/A	N/A	N/A	N/A	N/A
E	04		N/A	N/A	N/A	N/A	N/A
E	05		N/A	N/A	N/A	N/A	N/A
E	06		N/A	N/A	N/A	N/A	N/A
E	07		N/A	N/A	N/A	N/A	N/A
E	08		N/A	N/A	N/A	N/A	N/A
E	09		N/A	N/A	N/A	N/A	N/A

# Gene Expression - Bar Chart Data

Target	Sample	Ctrl	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM
E	10		N/A	N/A	N/A	N/A	N/A
E	11		N/A	N/A	N/A	N/A	N/A
E	12		N/A	N/A	N/A	N/A	N/A
E	13		N/A	N/A	N/A	N/A	N/A
E	14		N/A	N/A	N/A	N/A	N/A
E	15		N/A	N/A	N/A	N/A	N/A
E	16		N/A	N/A	N/A	N/A	N/A
E	17		N/A	N/A	N/A	N/A	N/A
E	18		N/A	N/A	N/A	N/A	N/A
E	19		N/A	N/A	N/A	N/A	N/A
E	20		N/A	N/A	N/A	N/A	N/A
E	21		N/A	N/A	N/A	N/A	N/A
E	22-YTH		N/A	N/A	N/A	N/A	N/A
E	23-LBS		N/A	N/A	N/A	N/A	N/A
E	24-CYJ		N/A	N/A	N/A	14.66	0.00000
E	25-PHS-NAS		N/A	N/A	N/A	30.91	0.00000
E	26-PHS-SPU		N/A	N/A	N/A	17.66	0.00000
E	27-JJH-SPU		N/A	N/A	N/A	30.47	0.00000
E	NC		N/A	N/A	N/A	N/A	N/A
E	PC		N/A	N/A	N/A	25.17	0.00000
I.C.	01-KYI		N/A	N/A	N/A	22.96	0.00000
I.C.	02		N/A	N/A	N/A	22.62	0.00000
I.C.	03		N/A	N/A	N/A	22.61	0.00000
I.C.	04		N/A	N/A	N/A	22.56	0.00000
I.C.	05		N/A	N/A	N/A	22.54	0.00000
I.C.	06		N/A	N/A	N/A	22.54	0.00000
I.C.	07		N/A	N/A	N/A	22.62	0.00000
I.C.	08		N/A	N/A	N/A	22.41	0.00000
I.C.	09		N/A	N/A	N/A	22.85	0.00000
I.C.	10		N/A	N/A	N/A	22.56	0.00000
I.C.	11		N/A	N/A	N/A	22.61	0.00000
I.C.	12		N/A	N/A	N/A	22.84	0.00000
I.C.	13		N/A	N/A	N/A	22.43	0.00000
I.C.	14		N/A	N/A	N/A	22.48	0.00000
I.C.	15		N/A	N/A	N/A	22.74	0.00000
I.C.	16		N/A	N/A	N/A	22.50	0.00000
I.C.	17		N/A	N/A	N/A	22.71	0.00000
I.C.	18		N/A	N/A	N/A	22.51	0.00000
I.C.	19		N/A	N/A	N/A	22.91	0.00000
I.C.	20		N/A	N/A	N/A	22.66	0.00000
I.C.	21		N/A	N/A	N/A	22.75	0.00000
I.C.	22-YTH		N/A	N/A	N/A	22.82	0.00000
I.C.	23-LBS		N/A	N/A	N/A	22.38	0.00000
I.C.	24-CYJ		N/A	N/A	N/A	32.49	0.00000
I.C.	25-PHS-NAS		N/A	N/A	N/A	22.54	0.00000
I.C.	26-PHS-SPU		N/A	N/A	N/A	22.82	0.00000
I.C.	27-JJH-SPU		N/A	N/A	N/A	21.44	0.00000
I.C.	NC		N/A	N/A	N/A	N/A	N/A
I.C.	PC		N/A	N/A	N/A	N/A	N/A

Gene Expression - Bar Chart Data

Target	Sample	Ctrl	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM
RdRP	01-KYI		N/A	N/A	N/A	N/A	N/A
RdRP	02		N/A	N/A	N/A	N/A	N/A
RdRP	03		N/A	N/A	N/A	N/A	N/A
RdRP	04		N/A	N/A	N/A	N/A	N/A
RdRP	05		N/A	N/A	N/A	N/A	N/A
RdRP	06		N/A	N/A	N/A	N/A	N/A
RdRP	07		N/A	N/A	N/A	N/A	N/A
RdRP	08		N/A	N/A	N/A	N/A	N/A
RdRP	09		N/A	N/A	N/A	N/A	N/A
RdRP	10		N/A	N/A	N/A	N/A	N/A
RdRP	11		N/A	N/A	N/A	N/A	N/A
RdRP	12		N/A	N/A	N/A	N/A	N/A
RdRP	13		N/A	N/A	N/A	N/A	N/A
RdRP	14		N/A	N/A	N/A	N/A	N/A
RdRP	15		N/A	N/A	N/A	N/A	N/A
RdRP	16		N/A	N/A	N/A	N/A	N/A
RdRP	17		N/A	N/A	N/A	N/A	N/A
RdRP	18		N/A	N/A	N/A	N/A	N/A
RdRP	19		N/A	N/A	N/A	N/A	N/A
RdRP	20		N/A	N/A	N/A	N/A	N/A
RdRP	21		N/A	N/A	N/A	N/A	N/A
RdRP	22-YTH		N/A	N/A	N/A	N/A	N/A
RdRP	23-LBS		N/A	N/A	N/A	N/A	N/A
RdRP	24-CYJ		N/A	N/A	N/A	13.69	0.00000
RdRP	25-PHS-NAS		N/A	N/A	N/A	30.68	0.00000
RdRP	26-PHS-SPU		N/A	N/A	N/A	17.26	0.00000
RdRP	27-JJH-SPU		N/A	N/A	N/A	30.45	0.00000
RdRP	NC		N/A	N/A	N/A	N/A	N/A
RdRP	PC		N/A	N/A	N/A	23.99	0.00000

QC Parameters

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
Negative control with a Cq less than	38	True		False	
NTC with a Cq less than	38	True		False	
NRT with a Cq less than	38	True		False	
Positive control with a Cq greater than	30	True		False	

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
Unknown without a Cq	N/A	True		False	
Standard without a Cq	N/A	True		False	
Efficiency greater than	110.0	True			
Efficiency less than	90.0	True			
Std Curve R^2 less than	0.980	True			
Replicate group Cq Std Dev greater than	0.20	True		False	