



# sam\_2024-12-11\_07-03-42\_CFX96-citrate\_synthase-02.pcrd

12/12/2024 14:48

## Report Information

User: BioRad/sam  
Data File Name: sam\_2024-12-11\_07-03-42\_CFX96-citrate\_synthase-02.pcrd  
Data File Path: C:\Users\Samb\Downloads\lifestage-pcrs  
Well Group Name: All Wells  
Report Differs from Last Save: No

## Run Setup

### Run Information

Run Date: 12/11/2024 07:04  
Run User: sam  
Run Type: User-defined  
Plate File: cgig-citrate\_synthase-cfx-plate-02.pltd  
ID:  
Notes:  
Sample Volume: 20  
Temperature Control Mode: Calculated  
Lid Temperature: 105  
Base Serial Number: CC009827  
Optical Head Serial Number: 785BR3659

### Protocol

- 1: 95.0°C for 0:30
- 2: 95.0°C for 0:03
- 3: 60.0°C for 0:05
- Plate Read
- 4: GOTO 2, 39 more times
- 5: Melt Curve 65.0°C to 95.0°C: Increment 0.5°C 0:05
- Plate Read

### Plate Display

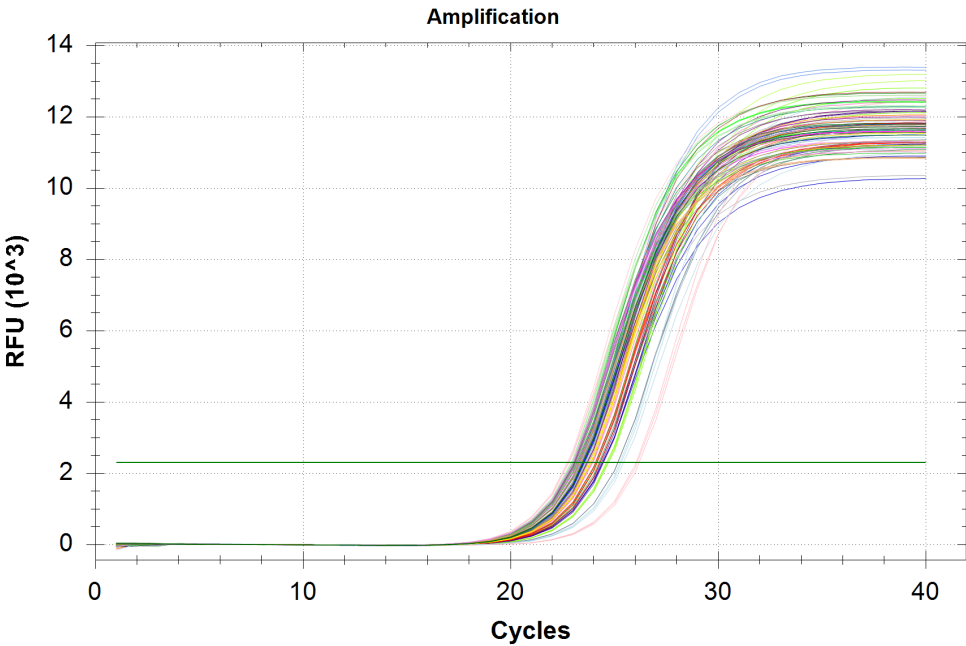
	1	2	3	4	5	6	7	8	9	10	11	12
A	Unk-1 Cg_citrate_synthase (SR IDs: 1383/4) 270	Unk-1 Cg_citrate_synthase (SR IDs: 1383/4) 270	Unk-1 Cg_citrate_synthase (SR IDs: 1383/4) 270	Unk-2 Cg_citrate_synthase (SR IDs: 1383/4) 271	Unk-2 Cg_citrate_synthase (SR IDs: 1383/4) 271	Unk-2 Cg_citrate_synthase (SR IDs: 1383/4) 271	Unk-3 Cg_citrate_synthase (SR IDs: 1383/4) 272	Unk-3 Cg_citrate_synthase (SR IDs: 1383/4) 272	Unk-3 Cg_citrate_synthase (SR IDs: 1383/4) 272	Unk-4 Cg_citrate_synthase (SR IDs: 1383/4) 273	Unk-4 Cg_citrate_synthase (SR IDs: 1383/4) 273	Unk-4 Cg_citrate_synthase (SR IDs: 1383/4) 273
B	Unk-5 Cg_citrate_synthase (SR IDs: 1383/4) 275	Unk-5 Cg_citrate_synthase (SR IDs: 1383/4) 275	Unk-5 Cg_citrate_synthase (SR IDs: 1383/4) 275	Unk-6 Cg_citrate_synthase (SR IDs: 1383/4) 276	Unk-6 Cg_citrate_synthase (SR IDs: 1383/4) 276	Unk-6 Cg_citrate_synthase (SR IDs: 1383/4) 276	Unk-7 Cg_citrate_synthase (SR IDs: 1383/4) 277	Unk-7 Cg_citrate_synthase (SR IDs: 1383/4) 277	Unk-7 Cg_citrate_synthase (SR IDs: 1383/4) 277	Unk-8 Cg_citrate_synthase (SR IDs: 1383/4) 279	Unk-8 Cg_citrate_synthase (SR IDs: 1383/4) 279	Unk-8 Cg_citrate_synthase (SR IDs: 1383/4) 279

Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
C	Unk-9 Cg_citrate_synthase (SR IDs: 1383/4) 280	Unk-9 Cg_citrate_synthase (SR IDs: 1383/4) 280	Unk-9 Cg_citrate_synthase (SR IDs: 1383/4) 280	Unk-10 Cg_citrate_synthase (SR IDs: 1383/4) 287	Unk-10 Cg_citrate_synthase (SR IDs: 1383/4) 287	Unk-10 Cg_citrate_synthase (SR IDs: 1383/4) 287	Unk-11 Cg_citrate_synthase (SR IDs: 1383/4) 290	Unk-11 Cg_citrate_synthase (SR IDs: 1383/4) 290	Unk-11 Cg_citrate_synthase (SR IDs: 1383/4) 290	Unk-12 Cg_citrate_synthase (SR IDs: 1383/4) 291	Unk-12 Cg_citrate_synthase (SR IDs: 1383/4) 291	Unk-12 Cg_citrate_synthase (SR IDs: 1383/4) 291
D	Unk-13 Cg_citrate_synthase (SR IDs: 1383/4) 293	Unk-13 Cg_citrate_synthase (SR IDs: 1383/4) 293	Unk-13 Cg_citrate_synthase (SR IDs: 1383/4) 293	Unk-14 Cg_citrate_synthase (SR IDs: 1383/4) 294	Unk-14 Cg_citrate_synthase (SR IDs: 1383/4) 294	Unk-14 Cg_citrate_synthase (SR IDs: 1383/4) 294	Unk-15 Cg_citrate_synthase (SR IDs: 1383/4) 295	Unk-15 Cg_citrate_synthase (SR IDs: 1383/4) 295	Unk-15 Cg_citrate_synthase (SR IDs: 1383/4) 295	Unk-16 Cg_citrate_synthase (SR IDs: 1383/4) 297	Unk-16 Cg_citrate_synthase (SR IDs: 1383/4) 297	Unk-16 Cg_citrate_synthase (SR IDs: 1383/4) 297
E	Unk-17 Cg_citrate_synthase (SR IDs: 1383/4) 301	Unk-17 Cg_citrate_synthase (SR IDs: 1383/4) 301	Unk-17 Cg_citrate_synthase (SR IDs: 1383/4) 301	Unk-18 Cg_citrate_synthase (SR IDs: 1383/4) 302	Unk-18 Cg_citrate_synthase (SR IDs: 1383/4) 302	Unk-18 Cg_citrate_synthase (SR IDs: 1383/4) 302	Unk-19 Cg_citrate_synthase (SR IDs: 1383/4) 306	Unk-19 Cg_citrate_synthase (SR IDs: 1383/4) 306	Unk-19 Cg_citrate_synthase (SR IDs: 1383/4) 306	Unk-20 Cg_citrate_synthase (SR IDs: 1383/4) 310	Unk-20 Cg_citrate_synthase (SR IDs: 1383/4) 310	Unk-20 Cg_citrate_synthase (SR IDs: 1383/4) 310
F	Unk-21 Cg_citrate_synthase (SR IDs: 1383/4) 311	Unk-21 Cg_citrate_synthase (SR IDs: 1383/4) 311	Unk-21 Cg_citrate_synthase (SR IDs: 1383/4) 311	Unk-22 Cg_citrate_synthase (SR IDs: 1383/4) 316	Unk-22 Cg_citrate_synthase (SR IDs: 1383/4) 316	Unk-22 Cg_citrate_synthase (SR IDs: 1383/4) 316	Unk-23 Cg_citrate_synthase (SR IDs: 1383/4) 317	Unk-23 Cg_citrate_synthase (SR IDs: 1383/4) 317	Unk-23 Cg_citrate_synthase (SR IDs: 1383/4) 317	Unk-24 Cg_citrate_synthase (SR IDs: 1383/4) 318	Unk-24 Cg_citrate_synthase (SR IDs: 1383/4) 318	Unk-24 Cg_citrate_synthase (SR IDs: 1383/4) 318
G	Unk-25 Cg_citrate_synthase (SR IDs: 1383/4) 324	Unk-25 Cg_citrate_synthase (SR IDs: 1383/4) 324	Unk-25 Cg_citrate_synthase (SR IDs: 1383/4) 324	Unk-26 Cg_citrate_synthase (SR IDs: 1383/4) 326	Unk-26 Cg_citrate_synthase (SR IDs: 1383/4) 326	Unk-26 Cg_citrate_synthase (SR IDs: 1383/4) 326	Unk-27 Cg_citrate_synthase (SR IDs: 1383/4) 334	Unk-27 Cg_citrate_synthase (SR IDs: 1383/4) 334	Unk-27 Cg_citrate_synthase (SR IDs: 1383/4) 334	Unk-28 Cg_citrate_synthase (SR IDs: 1383/4) 341	Unk-28 Cg_citrate_synthase (SR IDs: 1383/4) 341	Unk-28 Cg_citrate_synthase (SR IDs: 1383/4) 341
H	Unk-29 Cg_citrate_synthase (SR IDs: 1383/4) 343	Unk-29 Cg_citrate_synthase (SR IDs: 1383/4) 343	Unk-29 Cg_citrate_synthase (SR IDs: 1383/4) 343	Unk-30 Cg_citrate_synthase (SR IDs: 1383/4) 344	Unk-30 Cg_citrate_synthase (SR IDs: 1383/4) 344	Unk-30 Cg_citrate_synthase (SR IDs: 1383/4) 344	Unk-31 Cg_citrate_synthase (SR IDs: 1383/4) 346	Unk-31 Cg_citrate_synthase (SR IDs: 1383/4) 346	Unk-31 Cg_citrate_synthase (SR IDs: 1383/4) 346	Unk-32 Cg_citrate_synthase (SR IDs: 1383/4) 349	Unk-32 Cg_citrate_synthase (SR IDs: 1383/4) 349	Unk-32 Cg_citrate_synthase (SR IDs: 1383/4) 349

Quantification

Step #: 3  
Analysis Mode: Fluorophore  
Cq Determination: Single Threshold  
Baseline Method:  
SYBR: Auto Calculated  
Threshold Setting:  
SYBR: 2295.70, Auto Calculated



## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
A01	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-01	270	24.16	23.95	0.182
A02	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-01	270	23.83	23.95	0.182
A03	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-01	270	23.86	23.95	0.182
A04	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-02	271	23.96	23.90	0.068
A05	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-02	271	23.82	23.90	0.068
A06	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-02	271	23.91	23.90	0.068
A07	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-03	272	24.08	24.08	0.012
A08	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-03	272	24.10	24.08	0.012
A09	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-03	272	24.08	24.08	0.012
A10	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-04	273	24.42	24.42	0.000
A11	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-04	273	24.42	24.42	0.000
A12	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-04	273	24.42	24.42	0.000
B01	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-05	275	23.50	23.54	0.034
B02	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-05	275	23.56	23.54	0.034
B03	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-05	275	23.57	23.54	0.034
B04	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-06	276	23.63	23.49	0.130
B05	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-06	276	23.47	23.49	0.130
B06	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-06	276	23.37	23.49	0.130
B07	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-07	277	24.17	24.36	0.227
B08	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-07	277	24.61	24.36	0.227
B09	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-07	277	24.30	24.36	0.227
B10	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-08	279	25.16	25.16	0.001
B11	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-08	279	25.16	25.16	0.001
B12	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-08	279	25.16	25.16	0.001
C01	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-09	280	24.24	24.21	0.103
C02	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-09	280	24.30	24.21	0.103
C03	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-09	280	24.10	24.21	0.103

## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
C04	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-10	287	24.71	24.66	0.046
C05	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-10	287	24.67	24.66	0.046
C06	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-10	287	24.62	24.66	0.046
C07	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-11	290	24.37	24.38	0.078
C08	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-11	290	24.31	24.38	0.078
C09	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-11	290	24.46	24.38	0.078
C10	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-12	291	23.67	23.57	0.085
C11	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-12	291	23.55	23.57	0.085
C12	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-12	291	23.50	23.57	0.085
D01	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-13	293	26.18	26.10	0.071
D02	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-13	293	26.04	26.10	0.071
D03	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-13	293	26.09	26.10	0.071
D04	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-14	294	23.11	23.04	0.061
D05	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-14	294	23.01	23.04	0.061
D06	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-14	294	23.00	23.04	0.061
D07	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-15	295	23.69	23.71	0.032
D08	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-15	295	23.69	23.71	0.032
D09	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-15	295	23.74	23.71	0.032
D10	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-16	297	23.06	23.05	0.017
D11	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-16	297	23.06	23.05	0.017
D12	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-16	297	23.03	23.05	0.017
E01	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-17	301	23.51	23.50	0.018
E02	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-17	301	23.48	23.50	0.018
E03	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-17	301	23.51	23.50	0.018
E04	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-18	302	22.80	22.76	0.044
E05	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-18	302	22.76	22.76	0.044
E06	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-18	302	22.71	22.76	0.044
E07	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-19	306	23.27	23.30	0.029

## Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
E08	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-19	306	23.33	23.30	0.029
E09	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-19	306	23.30	23.30	0.029
E10	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-20	310	24.15	24.20	0.084
E11	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-20	310	24.30	24.20	0.084
E12	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-20	310	24.16	24.20	0.084
F01	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-21	311	25.43	25.33	0.086
F02	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-21	311	25.26	25.33	0.086
F03	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-21	311	25.32	25.33	0.086
F04	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-22	316	23.32	23.28	0.033
F05	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-22	316	23.25	23.28	0.033
F06	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-22	316	23.28	23.28	0.033
F07	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-23	317	23.86	23.84	0.016
F08	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-23	317	23.83	23.84	0.016
F09	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-23	317	23.83	23.84	0.016
F10	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-24	318	23.01	22.95	0.056
F11	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-24	318	22.90	22.95	0.056
F12	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-24	318	22.92	22.95	0.056
G01	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-25	324	23.21	23.14	0.061
G02	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-25	324	23.09	23.14	0.061
G03	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-25	324	23.13	23.14	0.061
G04	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-26	326	23.82	23.80	0.062
G05	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-26	326	23.85	23.80	0.062
G06	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-26	326	23.73	23.80	0.062
G07	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-27	334	23.56	23.49	0.067
G08	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-27	334	23.46	23.49	0.067
G09	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-27	334	23.43	23.49	0.067
G10	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-28	341	23.41	23.41	0.013
G11	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-28	341	23.40	23.41	0.013

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev
G12	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-28	341	23.43	23.41	0.013
H01	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-29	343	23.18	23.16	0.036
H02	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-29	343	23.12	23.16	0.036
H03	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-29	343	23.18	23.16	0.036
H04	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-30	344	23.31	23.34	0.085
H05	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-30	344	23.43	23.34	0.085
H06	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-30	344	23.27	23.34	0.085
H07	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-31	346	23.02	23.01	0.029
H08	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-31	346	23.04	23.01	0.029
H09	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-31	346	22.98	23.01	0.029
H10	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-32	349	23.55	23.49	0.054
H11	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-32	349	23.46	23.49	0.054
H12	SYBR	Cg_citrate_synthase (SR IDs: 1383/4)	Unkn-32	349	23.46	23.49	0.054

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	
Unknown without a Cq	N/A	True		False	
Standard without a Cq	N/A	True		False	

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
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	0.50	True		False	