

## Biosan centrifuge/vortex

	1	2	3	4	5	6	7	8	9	10	11	12
A	1 000 000	100	100	100	100			100	100	100	100	1 000 000
B	1 000 000	100 000	100	100	100			100	100	100	100 000	1 000 000
C	1 000 000	100 000	10 000	100	100			100	100	10 000	100 000	1 000 000
D	1 000 000	100 000	10 000	1 000	100			100	1 000	10 000	100 000	1 000 000
E	1 000 000	100 000	10 000	1 000	100			100	1 000	10 000	100 000	1 000 000
F	1 000 000	1 000 000	10 000	1 000	100			100	1 000	10 000	1 000 000	1 000 000
G	1 000 000	1 000 000	1 000 000	1 000	100			100	1 000	1 000 000	1 000 000	1 000 000
H	1 000 000	1 000 000	1 000 000	1 000 000	100			100	1 000 000	1 000 000	1 000 000	1 000 000



**Experiment:** qPCR plate scheme, where numbers represent *E. coli* genomic DNA copies in a reaction well. After filling the plate, it was cut into halves and then the left part was used for vertical centrifugation and the right part for horizontal centrifugation. Both parts then were run conjointly in one qPCR run. Results obtained from left and right parts were analyzed separately, but the same threshold and baseline was used for both analysis so the results could be compared afterwards (see slide 2 for results).

# Biosan centrifuge/vortex (results)

## Vertical vortexing/centrifugation

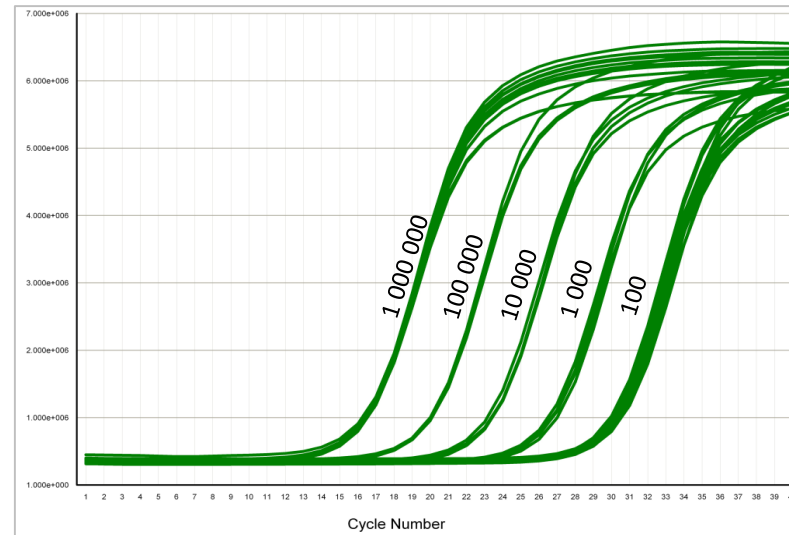
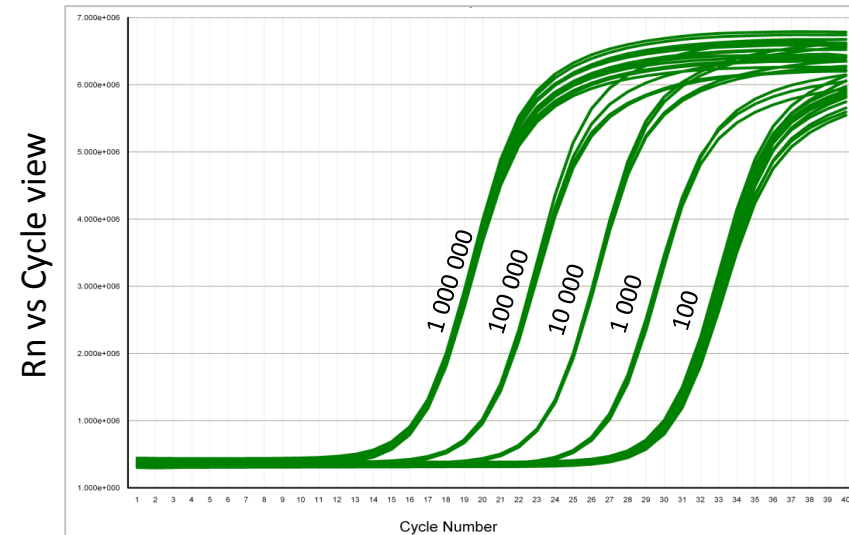
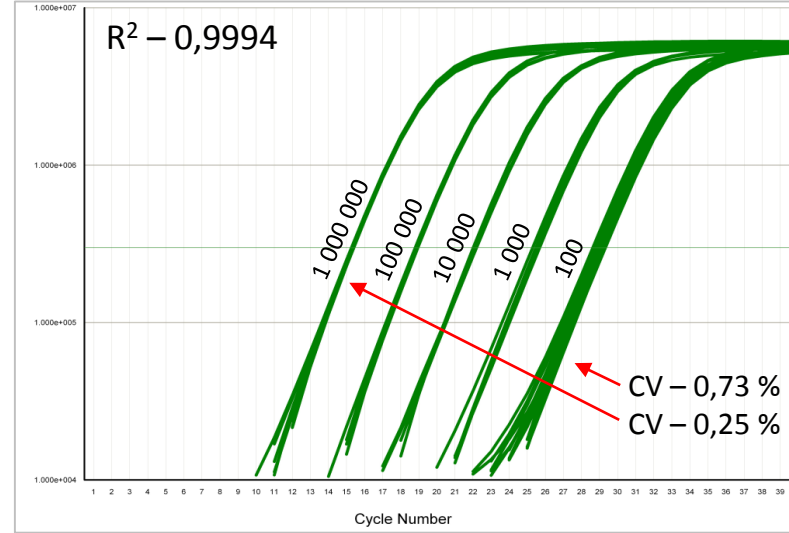
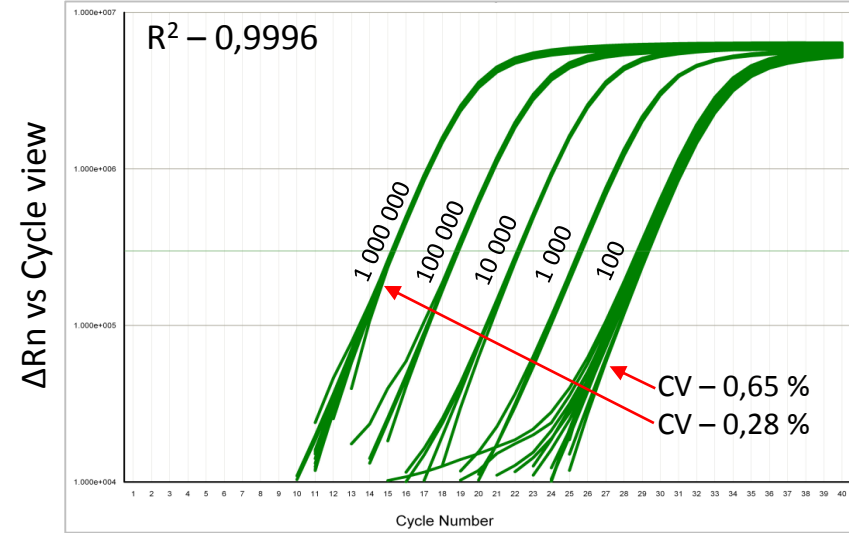
SMS program on Biosan Centrifuge/Vortex CVP-2

Spin – 1500 RMP, 30" → Mix – 1200 RPM, 30" → Spin – 1500 RMP, 30"

## Horizontal centrifugation

Hettich Universal 320R (1460 rotor)

1000 RPM, 1'



## Results:

- No negative effects were observed when Biosan vortex/centrifuge was used instead of our conventional horizontal plate centrifuge. Calibration curve parameters were perfect for both plate sides, qPCR replicate Ct variation was low and quite similar for both centrifugation methods.
- Biosan Centrifuge/Vortex CVP-2 is very handy and saves lab space and time (no need to change rotors, fast acceleration/deceleration, etc.).