

TABLE S3 Robustness test matrix for the Gassim PCR-System with 0.02 ng DNA per reaction. NTC = Non-template control, water instead of DNA.

| Temperature: Mastermix | Gassim at 62 °C annealing temperature | | | Gassim at 63 °C annealing temperature | | |
|---------------------------|--|--------|------------|--|--------|------------|
| | QuantStudio | AriaDX | Stratagene | QuantStudio | AriaDX | Stratagene |
| Takyon | 26.52 | 26.56 | 26.93 | 26.63 | 26.37 | 26.78 |
| | 26.56 | 26.31 | 26.89 | 26.63 | 29.29 | 26.60 |
| | 26.98 | 26.76 | 26.70 | 27.04 | 26.45 | 26.75 |
| Takyon NTC | No Ct | No Ct | No Ct | No Ct | No Ct | No Ct |
| Steinbrenner | 25.45 | 25.81 | 25.58 | 25.49 | 25.57 | 25.46 |
| | 25.68 | 25.85 | 25.77 | 25.50 | 25.83 | 25.28 |
| | 25.53 | 25.74 | 25.56 | 25.55 | 26.90 | 25.05 |
| Steinbrenner NTC | No Ct | No Ct | No Ct | No Ct | No Ct | No Ct |