

## PCR comparison: TIBMOLBIOL (TMB) kits vs In-house assay for Monkeypox detection

1. Objective : Comparison of TibmolBio PCR (LC480/Quantstudio 5) and in-house PCR

2. Material

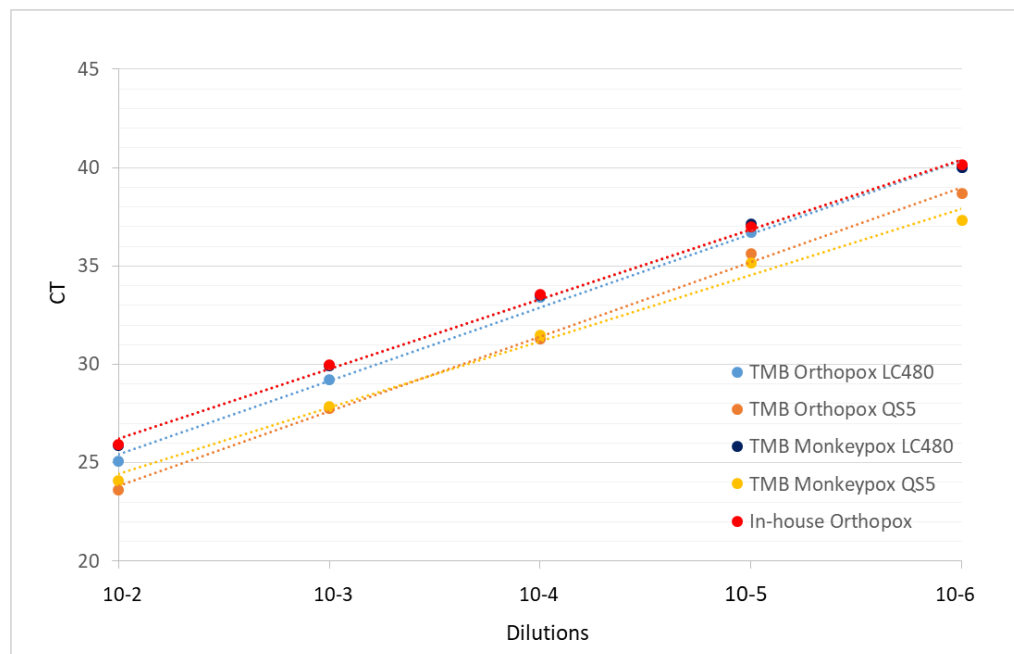
- LightMix® Modular Orthopox Virus (Cat.-No. 53-0548-96)
- LightMix® Modular Monkeypox Virus (Cat.-No. 58-0550-96)
- In-house PCR Orthopox virus (protocol: <https://www.hug.ch/centre-maladies-virales-emergentes/varirole-du-singe-monkeypox> )
- DNA dilutions of positive Monkeypox sample

3. Result

	10 <sup>-2</sup>	10 <sup>-3</sup>	10 <sup>-4</sup>	10 <sup>-5</sup>	10 <sup>-6</sup>	10 <sup>-7</sup>
TMB Orthopox LC480	25.07	29.23	33.43	36.72	40	ND
TMB Orthopox QS5	23.64	27.78	31.29	35.65	38.69	ND
TMB Monkeypox LC480	25.89	29.93	33.52	37.14	40	ND
TMB Monkeypox QS5	24.07	27.86	31.48	35.18	37.3	ND
In-house Orthopox	25.94	30	33.56	36.98	40.14	ND

ND, not detected

Thresholds QuantStudio 5: 100'000 (TMB Orthopox), 10'000 (TMB MOnkeypox)



4. Conclusions: In-house PCR and TMB Orthopox/TMB Monkeypox assays on LC480 are comparable. To note, CT values on Quantstudio 5 are 1 CT earlier than on LC480 but the detection limit is similar.

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