

Table S1: Comparison among the results of the GSD NovaType II SARS-CoV-2/GSD NovaType III SARS-CoV-2 kits versus the results of NGS. The 835 positive cases of SARS-CoV-2 detected by the MPL RT-rPCR were detected by confirmatory test and sequencing by NGS, too. From these results, we can conclude that the MPL RT-rPCR is sensitive to detect the SARS-CoV-2 directly from the samples regardless of the different variants.

| GSD RT PCR | Pangolin Lineage | Nextstrain clade | No of detected case | GSD RT PCR | Pangolin Lineage | Nextstrain clade | No of detected case |
|------------|------------------|------------------|---------------------|------------|------------------|------------------|---------------------|
| DELTA | AY.102 | Delta, AY | 24 | DELTA | AY.66 | Delta, AY | 2 |
| | AY.103 | Delta, AY | 2 | | AY.68 | Delta, AY | 3 |
| | AY.111 | Delta, AY | 1 | | AY.7.2 | Delta, AY | 14 |
| | AY.116 | Delta, AY | 7 | | AY.71 | Delta, AY | 3 |
| | AY.120 | Delta, AY | 6 | | AY.72 | Delta, AY | 4 |
| | AY.120.2 | Delta, AY | 1 | | AY.75 | Delta, AY | 2 |
| | AY.121 | Delta, AY | 3 | | AY.77 | Delta, AY | 1 |
| | AY.122 | Delta, AY | 46 | | AY.89 | Delta, AY | 2 |
| | AY.122.1 | Delta, AY | 1 | | AY.9.1 | Delta, AY | 2 |
| | AY.124 | Delta, AY | 4 | | AY.92 | Delta, AY | 11 |
| | AY.125 | Delta, AY | 25 | | AY.96 | Delta, AY | 1 |
| | AY.19 | Delta, AY | 3 | | AY.98 | Delta, AY | 1 |
| | AY.22, .23 | Delta, AY | 2 | | AY.98.1 | Delta, AY | 19 |
| | AY.25 | Delta, AY | 1 | | B.1.1.7 | Alpha, V1 | 1 |
| | AY.33 | Delta, AY | 5 | | B.1.525 | Eta | 1 |
| | AY.34 | Delta, AY | 27 | | B.1.617.2 | Delta | 60 |
| | AY.36 | Delta, AY | 2 | ALPHA | BA.1 | Omicron | 1 |
| | AY.37 | Delta, AY | 2 | | AY.4 | Delta, AY | 1 |
| | AY.39 | Delta, AY | 2 | | B.1.1.7 | Alpha, V1 | 38 |
| | AY.4 | Delta, AY | 44 | | B.1.375 | Beta? | 1 |
| | AY.4.2.2 | Delta, AY | 1 | | Q1 | Alpha, Q1 | 9 |
| | AY.4.2.3 | Delta, AY | 2 | | Q4 | Alpha, Q4 | 1 |
| | AY.4.5 | Delta, AY | 2 | GAMMA | AY.117 | Delta, AY | 1 |
| | AY.40 | Delta, AY | 2 | | AY.125 | Delta, AY | 1 |
| | AY.42 | Delta, AY | 30 | | B.1.1.7 | Alpha, V1 | 1 |
| | AY.43 | Delta, AY | 169 | | P.1 | Gamma | 1 |
| | AY.44 | Delta, AY | 3 | | P.1.12 | Gamma | 3 |
| | AY.46.6 | Delta, AY | 31 | | B.1.1.529 | Omicron | 1 |
| | AY.5 | Delta, AY | 17 | OMICRON | BA.1 | Omicron | 109 |
| | AY.53 | Delta, AY | 2 | | BA.1.1 | Omicron | 39 |
| | AY.58 | Delta, AY | 2 | | BA.2 | Omicron | 1 |
| | AY.6 | Delta, AY | 1 | OTHER | B.1.1.523 | Omicron? | 2 |
| | AY.61 | Delta, AY | 27 | | C.37 | Lamda | 1 |