SUPPLEMENTARY MATERIAL:

Table S1. LFAs manufacturers and Antigenic target.

| Name                                      | Manufacturer            | Ag Target   |
|-------------------------------------------|-------------------------|-------------|
| COVID-19 IgM/IgG Rapid Test               | Biomedomics             | Undisclosed |
| 2019-nCoV Ab Test                         | Innovita                | S1+N        |
| STANDARD Q COVID-19 IgM/IgG Duo           | SD Biosensor            | N           |
| COVID-19 IgG/IgM Test                     | BTNX                    | Undisclosed |
| COVID19 Single Rapid Test IgM/IgG         | VivaDiag                | Undisclosed |
| COVID-19 IgM/IgG                          | QuickZen                | Undisclosed |
| COVID-19 IgG/IgM Rapid Test               | OrientGene              | Undisclosed |
| COVID-19 IgG/IgM Rapid Test Cassette      | RightSign               | Undisclosed |
| Novel Corona Virus (SARS-CoV-2) IgM/IgG Rapid Test Kit | Bio Perfectus          | Undisclosed |
| COVID-19 IgM/IgG Ab Test                  | CoreTests, Core Technology | Undisclosed |
| COVID-19 Combo IgM/IgG Rapid Test (Lateral Flow Method) | Tigsun                | Undisclosed |
| Anti-SARS-CoV-2 ELISA IgG                 | Euroimmun               | S1          |

Figure S1. Agreement of LFAs for SARS-CoV-2

Percent agreement plotted per IgM (a) and IgG (b) across all LFAs combinations in PostH, PreH and PreK groups.

a)
Table S2. Logistic mixed-effects model for IgM negative results

| Parameter               | Estimate | Std.Error | p-value |
|-------------------------|----------|-----------|---------|
| Intercept               | 7.0851   | 0.8910    | <0.0001 |
| Group (ref=PreH)        |          |           |         |
| PostH                   | -1.4251  | 1.1677    | 0.2223  |
| PreK                    | -2.1369  | 0.8455    | 0.0115  |
| Age                     | -0.0106  | 0.0199    | 0.5950  |
| Female (ref=Male)       | -0.9318  | 0.6395    | 0.1451  |

Table S3. Logistic mixed-effects model for IgG negative results

| Parameter               | Estimate | Std.Error | p-value |
|-------------------------|----------|-----------|---------|
| Intercept               | 5.2364   | 0.9569    | <0.0001 |
| Group (ref=PreH)        |          |           |         |
| PostH                   | -1.5841  | 1.3705    | 0.2477  |
| PreK                    | -1.3598  | 0.8801    | 0.1223  |
| Age                     | 0.0161   | 0.0294    | 0.5854  |
| Female (ref=Male)       | 2.4661   | 1.2573    | 0.0498  |

Table S4. Logistic mixed-effect models for IgM positive results and post-hoc pairwise comparisons

| Parameter               | Estimate | Std.Error | p-value |
|-------------------------|----------|-----------|---------|
| Intercept               | -3.6571  | 1.8430    | 0.0472  |
| Group (ref= C-19 POS ≤7 days) | | | |
| C-19 POS 8-14 days      | 0.8031   | 0.8131    | 0.3233  |
| C-19 POS 15-35 days     | 3.3475   | 1.0330    | 0.0012  |
| C-19 POS ≥36 days       | 1.1927   | 0.8552    | 0.1631  |
| Age                     | 0.0488   | 0.0290    | 0.0929  |
| Female (ref=Male)       | -0.3845  | 0.7311    | 0.5989  |
### Table S5. Logistic mixed-effects model for IgG positive results and post-hoc pairwise comparisons

| Parameter                        | Estimate | Std.Error | p-value |
|----------------------------------|----------|-----------|---------|
| Intercept                        | -4.4812  | 1.5374    | 0.0036  |
| Group (ref= C-19 POS ≤7 days)    |          |           |         |
| C-19 POS 8-14 days               | 1.0193   | 0.6826    | 0.1354  |
| C-19 POS 15-35 days              | 3.4660   | 0.8695    | 0.0001  |
| C-19 POS ≥36 days                | 1.5237   | 0.7222    | 0.0349  |
| Age                              | 0.0519   | 0.0242    | 0.0321  |
| Female (ref=Male)                | -0.0838  | 0.6057    | 0.8900  |
| Ethnic group (ref=Caucasian)     |          |           |         |
| Hispanic                         | 1.5409   | 0.7927    | 0.0519  |
| Asian                            | 1.5584   | 1.7520    | 0.3737  |
| Afro-american                    | 0.3960   | 1.5675    | 0.8006  |
| ICU (ref=no ICU)                 | 0.7769   | 0.5965    | 0.1928  |

### Post-hoc pairwise comparisons

| Contrast                                                      | p-value |
|--------------------------------------------------------------|---------|
| (C-19 POS - ≤7 days) - (C-19 POS - 8-14 days)                | 0.8122  |
| (C-19 POS - ≤7 days) - (C-19 POS - 15-35 days)               | **0.0004** |
| (C-19 POS - ≤7 days) - (C-19 POS - ≥36 days)                 | 0.2092  |
| (C-19 POS - 8-14 days) - (C-19 POS - 15-35 days)             | **0.0188** |
| (C-19 POS - 8-14 days) - (C-19 POS - ≥36 days)               | 1       |
| (C-19 POS - 15-35 days) - (C-19 POS - ≥36 days)              | 0.1484  |