### Supplemental Table 1. Analysis and comparison of the accuracy of the tests by target analyte.
The numbers of true positives (T.P.), false positives (F.P.) and false negatives (F.N.) are shown, along with the positive percent agreement (PPA). McNemar’s test (with continuity correction) was used to compare each assay to the others. Statistically significant differences are noted with an asterisk.

| Adenovirus       | Influenza A      |
|------------------|------------------|
|                  | T.P. | F.P. | F.N. | PPA  | T.P. | F.P. | F.N. | PPA  |
| BF RP            | 13   | 0    | 2    | 86.7 | BF RP| 30   | 0    | 1    | 96.8 |
| GM RVP           | 15   | 1    | 0    | 100  | GM RVP| 31   | 0    | 0    | 100  |
| LX RPP           | 14   | 0    | 1    | 93.3 | LX RPP| 31   | 1    | 0    | 100  |

BF/GM p = 0.2482
BF/LX p = 1
GM/LX p = 0.4795

| Coronaviridae    | Influenza B      |
|------------------|------------------|
|                  | T.P. | F.P. | F.N. | PPA  | T.P. | F.P. | F.N. | PPA  |
| BF RP            | 42   | 6    | 0    | 100  | BF RP| 14   | 0    | 1    | 93.3 |
| GM RVP           | 41   | 1    | 1    | 97.6 | GM RVP| 15   | 4    | 0    | 100  |
| LX RPP           | 40   | 0    | 2    | 95.2 | LX RPP| 15   | 0    | 0    | 100  |

BF/GM p = 0.0771
*BF/LX p = 0.0412
GM/LX p = 0.4795

| Metapneumovirus  | Parainfluenza viruses 1 - 4 |
|------------------|-----------------------------|
|                  | T.P. | F.P. | F.N. | PPA  | T.P. | F.P. | F.N. | PPA  |
| BF RP            | 22   | 1    | 0    | 100  | BF RP| 28   | 0    | 3    | 90.3 |
| GM RVP           | 22   | 1    | 0    | 100  | GM RVP| 31   | 9    | 0    | 100  |
| LX RPP           | 22   | 2    | 0    | 100  | LX RPP| 29   | 0    | 2    | 93.6 |

BF/GM p = 0.4795
BF/LX p = 1
GM/LX p = 1

*BF/GM p = 0.0015
BF/LX p = 1
GM/LX p = 0.0704

| Rhinovirus/Enterovirus | Respiratory Syncytial Virus |
|------------------------|-----------------------------|
|                        | T.P. | F.P. | F.N. | PPA  | T.P. | F.P. | F.N. | PPA  |
| BF RP                  | 60   | 0    | 6    | 90.9 | BF RP| 32   | 0    | 2    | 94.1 |
| GM RVP                 | 60   | 10   | 6    | 90.9 | GM RVP| 34   | 1    | 0    | 100  |
| LX RPP                 | 62   | 1    | 4    | 93.9 | LX RPP| 34   | 1    | 0    | 100  |

BF/GM p = 0.0550
BF/LX p = 0.5465
GM/LX p = 0.1904

BF/GM p = 0.2482
BF/LX p = 0.2482
GM/LX p = 0.4795