

Status Flu A & B

2021 Annual Reactivity Testing Results

The following tables summarize the results of annual reactivity testing performed using 2021 CDC influenza viruses panel (Cat: VP2021, Lot No.: 210601, Exp. Date: 2022-06-01) as required by 21 CFR 866.3328(b).

Using Swab Sample method

Influenza virus A

| Influenza Virus (Type/Subtype) | Virus Strain Name        | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                       |                       |                       |                        |                        |
|--------------------------------|--------------------------|--|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|
|                                |                          | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup> | 3.2x10 <sup>4.3</sup> | 6.4x10 <sup>3.3</sup> | 1.28x10 <sup>3.3</sup> | 2.56x10 <sup>2.3</sup> |
| A(H3N2)                        | A/Perth/16/2009          | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup> | 3.2x10 <sup>4.3</sup> | 6.4x10 <sup>3.3</sup> | 1.28x10 <sup>3.3</sup> | 2.56x10 <sup>2.3</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 5/5                   | 4/5                   | 0/5                    | 0/5                    |
| A(H3N2)                        | A/Tasmania/503/2020      | 10 <sup>8.5</sup>  | 2x10 <sup>7.5</sup> | 4x10 <sup>6.5</sup> | 8x10 <sup>5.5</sup> | 1.6x10 <sup>5.5</sup> | 3.2x10 <sup>4.5</sup> | 6.4x10 <sup>3.5</sup> | 1.28x10 <sup>3.5</sup> | 2.56x10 <sup>2.5</sup> |
|                                |                          | n/a  | 5/5                 | 3/5                 | 0/5                 | 0/5                   | 5/5                   | 3/5                   | 0/5                    | 0/5                    |
| A(H1N1)pdm09                   | A/Christ Church /16/2010 | 10 <sup>9.2</sup>  | 2x10 <sup>8.2</sup> | 4x10 <sup>7.2</sup> | 8x10 <sup>6.2</sup> | 1.6x10 <sup>6.2</sup> | 3.2x10 <sup>5.2</sup> | 6.4x10 <sup>4.2</sup> | n/a                    | n/a                    |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 4/5                   | 0/5                   | 0/5                   | n/a                    | n/a                    |
| A(H1N1)pdm09                   | A/Victoria/2570/2019     | 10 <sup>8.2</sup>  | 2x10 <sup>7.2</sup> | 4x10 <sup>6.2</sup> | 8x10 <sup>5.2</sup> | 1.6x10 <sup>5.2</sup> | 3.2x10 <sup>4.2</sup> | 6.4x10 <sup>3.2</sup> | n/a                    | n/a                    |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 3/5                   | 0/5                   | 0/5                   | n/a                    | n/a                    |

Influenza virus B

| Influenza Virus (Type/Subtype) | Virus Strain Name    | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                       |                       |                       |                        |
|--------------------------------|----------------------|--|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|------------------------|
|                                |                      | 10 <sup>6.9</sup>  | 2x10 <sup>5.9</sup> | 4x10 <sup>4.9</sup> | 8x10 <sup>3.9</sup> | 1.6x10 <sup>3.9</sup> | 3.2x10 <sup>2.9</sup> | 6.4x10 <sup>1.9</sup> | n/a                    |
| B (Victoria lineage)           | B/Michigan/09/2011   | 10 <sup>6.9</sup>  | 2x10 <sup>5.9</sup> | 4x10 <sup>4.9</sup> | 8x10 <sup>3.9</sup> | 1.6x10 <sup>3.9</sup> | 3.2x10 <sup>2.9</sup> | 6.4x10 <sup>1.9</sup> | n/a                    |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 3/5                   | 0/5                   | 0/5                   | n/a                    |
| B (Victoria lineage)           | B/Washington/02/2019 | 10 <sup>9.3</sup>  | 2x10 <sup>8.3</sup> | 4x10 <sup>7.3</sup> | 8x10 <sup>6.3</sup> | 1.6x10 <sup>6.3</sup> | 3.2x10 <sup>5.3</sup> | 6.4x10 <sup>4.3</sup> | n/a                    |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 4/5                   | 0/5                   | 0/5                   | n/a                    |
| B (Yamagata lineage)           | B/Texas/81/2016      | 10 <sup>8.1</sup>  | 2x10 <sup>7.1</sup> | 4x10 <sup>6.1</sup> | 8x10 <sup>5.1</sup> | 1.6x10 <sup>5.1</sup> | 3.2x10 <sup>4.1</sup> | 6.4x10 <sup>3.1</sup> | n/a                    |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 0/5                   | 0/5                   | n/a                    |
| B (Yamagata lineage)           | B/Phuket/3073/2013   | 10 <sup>9.9</sup>  | 2x10 <sup>8.9</sup> | 4x10 <sup>7.9</sup> | 8x10 <sup>6.9</sup> | 1.6x10 <sup>6.9</sup> | 3.2x10 <sup>5.9</sup> | 6.4x10 <sup>4.9</sup> | 1.28x10 <sup>4.9</sup> |
|                                |                      | n/a  | 5/5                 | 5/5                 | 3/5                 | 5/5                   | 1/5                   | 0/5                   | 0/5                    |

Using Aspirate sample method

Influenza virus A

| Influenza Virus (Type/Subtype) | Virus Strain Name        | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                       |                       |                       |                        |                        |                        |
|--------------------------------|--------------------------|--|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|
|                                |                          | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup> | 3.2x10 <sup>4.3</sup> | 6.4x10 <sup>3.3</sup> | 1.28x10 <sup>3.3</sup> | 2.56x10 <sup>2.3</sup> | 5.12x10 <sup>1.3</sup> |
| A(H3N2)                        | A/Perth/16/2009          | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup> | 3.2x10 <sup>4.3</sup> | 6.4x10 <sup>3.3</sup> | 1.28x10 <sup>3.3</sup> | 2.56x10 <sup>2.3</sup> | 5.12x10 <sup>1.3</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 5/5                   | 5/5                   | 5/5                    | 0/5                    | 0/5                    |
| A(H3N2)                        | A/Tasmania/503/2020      | 10 <sup>8.5</sup>  | 2x10 <sup>7.5</sup> | 4x10 <sup>6.5</sup> | 8x10 <sup>5.5</sup> | 1.6x10 <sup>5.5</sup> | 3.2x10 <sup>4.5</sup> | 6.4x10 <sup>3.5</sup> | 1.28x10 <sup>3.5</sup> | 2.56x10 <sup>2.5</sup> | 5.12x10 <sup>1.5</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 0/5                 | 0/5                   | 5/5                   | 5/5                   | 3/5                    | 0/5                    | 0/5                    |
| A(H1N1)pdm09                   | A/Christ Church /16/2010 | 10 <sup>9.2</sup>  | 2x10 <sup>8.2</sup> | 4x10 <sup>7.2</sup> | 8x10 <sup>6.2</sup> | 1.6x10 <sup>6.2</sup> | 3.2x10 <sup>5.2</sup> | 6.4x10 <sup>4.2</sup> | 1.28x10 <sup>4.2</sup> | 2.56x10 <sup>3.2</sup> | n/a                    |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 5/5                   | 1/5                   | 0/5                    | 0/5                    | n/a                    |
| A(H1N1)pdm09                   | A/Victoria/2570/2019     | 10 <sup>8.2</sup>  | 2x10 <sup>7.2</sup> | 4x10 <sup>6.2</sup> | 8x10 <sup>5.2</sup> | 1.6x10 <sup>5.2</sup> | 3.2x10 <sup>4.2</sup> | 6.4x10 <sup>3.2</sup> | 1.28x10 <sup>3.2</sup> | 2.56x10 <sup>2.2</sup> | n/a                    |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 5/5                   | 1/5                   | 0/5                    | 0/5                    | n/a                    |

Influenza virus B

| Influenza Virus (Type/Subtype) | Virus Strain Name    | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                       |                       |                       |                        |                        |
|--------------------------------|----------------------|--|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|
|                                |                      | 10 <sup>6.9</sup>  | 2x10 <sup>5.9</sup> | 4x10 <sup>4.9</sup> | 8x10 <sup>3.9</sup> | 1.6x10 <sup>3.9</sup> | 3.2x10 <sup>2.9</sup> | 6.4x10 <sup>1.9</sup> | 1.28x10 <sup>1.9</sup> | n/a                    |
| B (Victoria lineage)           | B/Michigan/09/2011   | 10 <sup>6.9</sup>  | 2x10 <sup>5.9</sup> | 4x10 <sup>4.9</sup> | 8x10 <sup>3.9</sup> | 1.6x10 <sup>3.9</sup> | 3.2x10 <sup>2.9</sup> | 6.4x10 <sup>1.9</sup> | 1.28x10 <sup>1.9</sup> | n/a                    |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 5/5                   | 0/5                   | 0/5                    | n/a                    |
| B (Victoria lineage)           | B/Washington/02/2019 | 10 <sup>9.3</sup>  | 2x10 <sup>8.3</sup> | 4x10 <sup>7.3</sup> | 8x10 <sup>6.3</sup> | 1.6x10 <sup>6.3</sup> | 3.2x10 <sup>5.3</sup> | 6.4x10 <sup>4.3</sup> | 1.28x10 <sup>4.3</sup> | n/a                    |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 5/5                   | 0/5                   | 0/5                    | n/a                    |
| B (Yamagata lineage)           | B/Texas/81/2016      | 10 <sup>8.1</sup>  | 2x10 <sup>7.1</sup> | 4x10 <sup>6.1</sup> | 8x10 <sup>5.1</sup> | 1.6x10 <sup>5.1</sup> | 3.2x10 <sup>4.1</sup> | 6.4x10 <sup>3.1</sup> | 1.28x10 <sup>3.1</sup> | 2.56x10 <sup>2.1</sup> |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 5/5                   | 5/5                   | 0/5                    | 0/5                    |
| B (Yamagata lineage)           | B/Phuket/3073/2013   | 10 <sup>9.9</sup>  | 2x10 <sup>8.9</sup> | 4x10 <sup>7.9</sup> | 8x10 <sup>6.9</sup> | 1.6x10 <sup>6.9</sup> | 3.2x10 <sup>5.9</sup> | 6.4x10 <sup>4.9</sup> | 1.28x10 <sup>4.9</sup> | 2.56x10 <sup>3.9</sup> |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 1/5                   | 5/5                   | 4/5                   | 0/5                    | 0/5                    |

## 2020 Annual Reactivity Testing Results

The following tables summarize the results of annual reactivity testing performed using 2020 CDC influenza viruses panel (Lot No. 200330, exp. date 01/May/2021) as required by 21 CFR 866.3328(b).

### Using Swab Sample method

#### Influenza virus A

| Influenza Virus (Type/Subtype) | Virus Strain Name            | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                        |                       |                       |
|--------------------------------|------------------------------|--|---------------------|---------------------|---------------------|------------------------|-----------------------|-----------------------|
|                                |                              | 10 <sup>9.3</sup>  | 2x10 <sup>8.3</sup> | 4x10 <sup>7.3</sup> | 8x10 <sup>6.3</sup> | 1.6x10 <sup>6.3</sup>  | 3.2x10 <sup>5.3</sup> | 6.4x10 <sup>4.3</sup> |
| A(H3N2)                        | A/Perth/16/2009              | 10 <sup>9.3</sup>  | 2x10 <sup>8.3</sup> | 4x10 <sup>7.3</sup> | 8x10 <sup>6.3</sup> | 1.6x10 <sup>6.3</sup>  | 3.2x10 <sup>5.3</sup> | 6.4x10 <sup>4.3</sup> |
|                                |                              | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 0/5                   | 0/5                   |
| A(H3N2)                        | A/Hong Kong/2671/2019        | 10 <sup>7.5</sup>  | 2x10 <sup>6.5</sup> | 4x10 <sup>5.5</sup> | 8x10 <sup>4.5</sup> | 1.6x10 <sup>4.5</sup>  | n/a                   | n/a                   |
|                                |                              | n/a  | 5/5                 | 3/5                 | 0/5                 | 0/5                    | n/a                   | n/a                   |
| A(H1N1)pdm09                   | A/Christ Church /16/2010     | 10 <sup>10.2</sup>   | 2x10 <sup>9.2</sup> | 4x10 <sup>8.2</sup> | 8x10 <sup>7.2</sup> | 1.6x10 <sup>7.2</sup>  | 3.2x10 <sup>6.2</sup> | n/a                   |
|                                |                              | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                   | n/a                   |
| A(H1N1)pdm09                   | A/Guangdong-Maonan/1536/2019 | 10 <sup>9.1</sup>  | 2x10 <sup>8.1</sup> | 4x10 <sup>7.1</sup> | 8x10 <sup>6.1</sup> | 1.6x 10 <sup>6.1</sup> | 3.2x10 <sup>5.1</sup> | n/a                   |
|                                |                              | n/a  | 5/5                 | 5/5                 | 1/5                 | 0/5                    | 0/5                   | n/a                   |

#### Influenza virus B

| Influenza Virus (Type/Subtype) | Virus Strain Name    | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                        |                       |                       |
|--------------------------------|----------------------|--|---------------------|---------------------|---------------------|------------------------|-----------------------|-----------------------|
|                                |                      | 10 <sup>6.9</sup>  | 2x10 <sup>5.9</sup> | 4x10 <sup>4.9</sup> | 8x10 <sup>3.9</sup> | 1.6x10 <sup>3.9</sup>  | n/a                   | n/a                   |
| B (Victoria lineage)           | B/Michigan/09/2011   | 10 <sup>6.9</sup>  | 2x10 <sup>5.9</sup> | 4x10 <sup>4.9</sup> | 8x10 <sup>3.9</sup> | 1.6x10 <sup>3.9</sup>  | n/a                   | n/a                   |
|                                |                      | n/a  | 5/5                 | 5/5                 | 0/5                 | 0/5                    | n/a                   | n/a                   |
| B (Victoria lineage)           | B/Washington/02/2019 | 10 <sup>9.2</sup>  | 2x10 <sup>8.2</sup> | 4x10 <sup>7.2</sup> | 8x10 <sup>6.2</sup> | 1.6x 10 <sup>6.2</sup> | 3.2x10 <sup>5.2</sup> | n/a                   |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                   | n/a                   |
| B (Yamagata lineage)           | B/Texas/81/2016      | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup>  | 3.2x10 <sup>4.3</sup> | 6.4x10 <sup>3.3</sup> |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 0/5                   | 0/5                   |
| B (Yamagata lineage)           | B/Phuket/3073/2013   | 10 <sup>9.9</sup>  | 2x10 <sup>8.9</sup> | 4x10 <sup>7.9</sup> | 8x10 <sup>6.9</sup> | 1.6x10 <sup>6.9</sup>  | 3.2x10 <sup>5.9</sup> | n/a                   |
|                                |                      | n/a  | 5/5                 | 5/5                 | 3/5                 | 0/5                    | 0/5                   | n/a                   |

### Using Aspirate sample method

#### Influenza virus A

| Influenza Virus (Type/Subtype) | Virus Strain Name            | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                        |                       |                       |                        |
|--------------------------------|------------------------------|--|---------------------|---------------------|---------------------|------------------------|-----------------------|-----------------------|------------------------|
|                                |                              | 10 <sup>9.3</sup>  | 2x10 <sup>8.3</sup> | 4x10 <sup>7.3</sup> | 8x10 <sup>6.3</sup> | 1.6x10 <sup>6.3</sup>  | 3.2x10 <sup>5.3</sup> | 6.4x10 <sup>4.3</sup> | 1.28x10 <sup>4.3</sup> |
| A(H3N2)                        | A/Perth/16/2009              | 10 <sup>9.3</sup>  | 2x10 <sup>8.3</sup> | 4x10 <sup>7.3</sup> | 8x10 <sup>6.3</sup> | 1.6x10 <sup>6.3</sup>  | 3.2x10 <sup>5.3</sup> | 6.4x10 <sup>4.3</sup> | 1.28x10 <sup>4.3</sup> |
|                                |                              | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 5/5                   | 0/5                   | 0/5                    |
| A(H3N2)                        | A/Hong Kong/2671/2019        | 10 <sup>7.5</sup>  | 2x10 <sup>6.5</sup> | 4x10 <sup>5.5</sup> | 8x10 <sup>4.5</sup> | 1.6x10 <sup>4.5</sup>  | n/a                   | n/a                   | n/a                    |
|                                |                              | n/a  | 5/5                 | 5/5                 | 0/5                 | 0/5                    | n/a                   | n/a                   | n/a                    |
| A(H1N1)pdm09                   | A/Christ Church /16/2010     | 10 <sup>10.2</sup>   | 2x10 <sup>9.2</sup> | 4x10 <sup>8.2</sup> | 8x10 <sup>7.2</sup> | 1.6x10 <sup>7.2</sup>  | 3.2x10 <sup>6.2</sup> | 6.4x10 <sup>5.2</sup> | n/a                    |
|                                |                              | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 0/5                   | 0/5                   | n/a                    |
| A(H1N1)pdm09                   | A/Guangdong-Maonan/1536/2019 | 10 <sup>9.1</sup>  | 2x10 <sup>8.1</sup> | 4x10 <sup>7.1</sup> | 8x10 <sup>6.1</sup> | 1.6x 10 <sup>6.1</sup> | 3.2x10 <sup>5.1</sup> | n/a                   | n/a                    |
|                                |                              | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                   | n/a                   | n/a                    |

#### Influenza virus B

| Influenza Virus (Type/Subtype) | Virus Strain Name    | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                        |                       |                       |                        |
|--------------------------------|----------------------|--|---------------------|---------------------|---------------------|------------------------|-----------------------|-----------------------|------------------------|
|                                |                      | 10 <sup>6.9</sup>  | 2x10 <sup>5.9</sup> | 4x10 <sup>4.9</sup> | 8x10 <sup>3.9</sup> | 1.6x10 <sup>3.9</sup>  | 3.2x10 <sup>2.9</sup> | n/a                   | n/a                    |
| B (Victoria lineage)           | B/Michigan/09/2011   | 10 <sup>6.9</sup>  | 2x10 <sup>5.9</sup> | 4x10 <sup>4.9</sup> | 8x10 <sup>3.9</sup> | 1.6x10 <sup>3.9</sup>  | 3.2x10 <sup>2.9</sup> | n/a                   | n/a                    |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                   | n/a                   | n/a                    |
| B (Victoria lineage)           | B/Washington/02/2019 | 10 <sup>9.2</sup>  | 2x10 <sup>8.2</sup> | 4x10 <sup>7.2</sup> | 8x10 <sup>6.2</sup> | 1.6x 10 <sup>6.2</sup> | 3.2x10 <sup>5.2</sup> | 6.4x10 <sup>4.2</sup> | 1.28x10 <sup>4.2</sup> |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 4/5                   | 0/5                   | 0/5                    |
| B (Yamagata lineage)           | B/Texas/81/2016      | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup>  | 3.2x10 <sup>4.3</sup> | 6.4x10 <sup>3.3</sup> | 1.28x10 <sup>3.3</sup> |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 5/5                   | 0/5                   | 0/5                    |
| B (Yamagata lineage)           | B/Phuket/3073/2013   | 10 <sup>9.9</sup>  | 2x10 <sup>8.9</sup> | 4x10 <sup>7.9</sup> | 8x10 <sup>6.9</sup> | 1.6x10 <sup>6.9</sup>  | 3.2x10 <sup>5.9</sup> | 6.4x10 <sup>4.9</sup> | n/a                    |
|                                |                      | n/a  | 5/5                 | 5/5                 | 5/5                 | 1/5                    | 0/5                   | 0/5                   | n/a                    |

## 2019 Annual Reactivity Testing Results

The following tables summarize the results of annual reactivity testing performed using 2019 CDC influenza viruses panel (Lot No. 190430, exp. date 01/May/2020) as required by 21 CFR 866.3328(b).

### Using Swab Sample method

#### Influenza virus A

| Influenza Virus (Type/Subtype) | Virus Strain Name        | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                        |                       |                       |
|--------------------------------|--------------------------|--|---------------------|---------------------|---------------------|------------------------|-----------------------|-----------------------|
|                                |                          | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup>  | 3.2x10 <sup>4.3</sup> | 6.4x10 <sup>3.3</sup> |
| A(H3N2)                        | A/Perth/16/2009          | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup>  | 3.2x10 <sup>4.3</sup> | 6.4x10 <sup>3.3</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 0/5                   | 0/5                   |
| A(H3N2)                        | A/Kansas/14/2017         | 10 <sup>8.9</sup>  | 2x10 <sup>7.9</sup> | 4x10 <sup>6.9</sup> | 8x10 <sup>5.9</sup> | 1.6x10 <sup>5.9</sup>  | 3.2x10 <sup>4.9</sup> | 6.4x10 <sup>3.9</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 0/5                   | 0/5                   |
| A(H1N1)pdm09                   | A/Christ Church /16/2010 | 10 <sup>9.9</sup>  | 2x10 <sup>8.9</sup> | 4x10 <sup>7.9</sup> | 8x10 <sup>6.9</sup> | 1.6x10 <sup>6.9</sup>  | 3.2x10 <sup>5.9</sup> | n/a                   |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                   | n/a                   |
| A(H1N1)pdm09                   | A/Brisbane/02/2018       | 10 <sup>7.9</sup>  | 2x10 <sup>6.9</sup> | 4x10 <sup>5.9</sup> | 8x10 <sup>4.9</sup> | 1.6x 10 <sup>4.9</sup> | 3.2x10 <sup>3.9</sup> | n/a                   |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                   | n/a                   |

#### Influenza virus B

| Influenza Virus (Type/Subtype) | Virus Strain Name        | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                        |                        |     |
|--------------------------------|--------------------------|--|---------------------|---------------------|---------------------|------------------------|------------------------|-----|
|                                |                          | 10 <sup>8.5</sup>  | 2x10 <sup>7.5</sup> | 4x10 <sup>6.5</sup> | 8x10 <sup>5.5</sup> | 1.6x10 <sup>5.5</sup>  | 3.2x10 <sup>4.5</sup>  | n/a |
| B (Victoria lineage)           | B/Michigan/09/2011       | 10 <sup>8.5</sup>  | 2x10 <sup>7.5</sup> | 4x10 <sup>6.5</sup> | 8x10 <sup>5.5</sup> | 1.6x10 <sup>5.5</sup>  | 3.2x10 <sup>4.5</sup>  | n/a |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                    | n/a |
| B (Victoria lineage)           | B/Colorado/06/2017       | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x 10 <sup>5.3</sup> | 3.2x10 <sup>4.3</sup>  | n/a |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                    | n/a |
| B (Yamagata lineage)           | B/New Hampshire /01/2016 | 10 <sup>8.9</sup>  | 2x10 <sup>7.9</sup> | 4x10 <sup>6.9</sup> | 8x10 <sup>5.9</sup> | 1.6x10 <sup>5.9</sup>  | 3.2x 10 <sup>4.9</sup> | n/a |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                    | n/a |
| B (Yamagata lineage)           | B/Phuket/3073/2013       | 10 <sup>8.9</sup>  | 2x10 <sup>7.9</sup> | 4x10 <sup>6.9</sup> | 8x10 <sup>5.9</sup> | 1.6x10 <sup>5.9</sup>  | 3.2x10 <sup>4.9</sup>  | n/a |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 0/5                    | 0/5                    | n/a |

### Using Aspirate sample method

#### Influenza virus A

| Influenza Virus (Type/Subtype) | Virus Strain Name        | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                        |                        |                        |                        |
|--------------------------------|--------------------------|--|---------------------|---------------------|---------------------|------------------------|------------------------|------------------------|------------------------|
|                                |                          | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup>  | 3.2x10 <sup>4.3</sup>  | 6.4x10 <sup>3.3</sup>  | 1.28x10 <sup>3.3</sup> |
| A(H3N2)                        | A/Perth/16/2009          | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup>  | 3.2x10 <sup>4.3</sup>  | 6.4x10 <sup>3.3</sup>  | 1.28x10 <sup>3.3</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 5/5                    | 0/5                    | 0/5                    |
| A(H3N2)                        | A/Kansas/14/2017         | 10 <sup>8.9</sup>  | 2x10 <sup>7.9</sup> | 4x10 <sup>6.9</sup> | 8x10 <sup>5.9</sup> | 1.6x10 <sup>5.9</sup>  | 3.2x 10 <sup>4.9</sup> | 6.4x 10 <sup>3.9</sup> | 1.28x10 <sup>3.9</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 5/5                    | 0/5                    | 0/5                    |
| A(H1N1)pdm09                   | A/Christ Church /16/2010 | 10 <sup>9.9</sup>  | 2x10 <sup>8.9</sup> | 4x10 <sup>7.9</sup> | 8x10 <sup>6.9</sup> | 1.6x10 <sup>6.9</sup>  | 3.2x10 <sup>5.9</sup>  | 6.4x10 <sup>4.9</sup>  | 1.28x10 <sup>4.9</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 4/5                    | 0/5                    | 0/5                    |
| A(H1N1)pdm09                   | A/Brisbane/02/2018       | 10 <sup>7.9</sup>  | 2x10 <sup>6.9</sup> | 4x10 <sup>5.9</sup> | 8x10 <sup>4.9</sup> | 1.6x 10 <sup>4.9</sup> | 3.2x10 <sup>3.9</sup>  | 6.4x10 <sup>2.9</sup>  | n/a                    |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                    | 0/5                    | 0/5                    | n/a                    |

#### Influenza virus B

| Influenza Virus (Type/Subtype) | Virus Strain Name        | Virus Serial Dilution Concentration (EID <sub>50</sub> /mL) and Number of Positive Results at Each Dilution (no. of positives /5 replicates) |                     |                     |                     |                       |                       |                       |                        |
|--------------------------------|--------------------------|--|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|------------------------|
|                                |                          | 10 <sup>8.5</sup>  | 2x10 <sup>7.5</sup> | 4x10 <sup>6.5</sup> | 8x10 <sup>5.5</sup> | 1.6x10 <sup>5.5</sup> | 3.2x10 <sup>4.5</sup> | 6.4x10 <sup>3.5</sup> | 1.28x10 <sup>3.5</sup> |
| B (Victoria lineage)           | B/Michigan/09/2011       | 10 <sup>8.5</sup>  | 2x10 <sup>7.5</sup> | 4x10 <sup>6.5</sup> | 8x10 <sup>5.5</sup> | 1.6x10 <sup>5.5</sup> | 3.2x10 <sup>4.5</sup> | 6.4x10 <sup>3.5</sup> | 1.28x10 <sup>3.5</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 1/5                   | 0/5                   | 0/5                    |
| B (Victoria lineage)           | B/Colorado/06/2017       | 10 <sup>8.3</sup>  | 2x10 <sup>7.3</sup> | 4x10 <sup>6.3</sup> | 8x10 <sup>5.3</sup> | 1.6x10 <sup>5.3</sup> | 3.2x10 <sup>4.3</sup> | 6.4x10 <sup>3.3</sup> | 1.28x10 <sup>3.3</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 4/5                   | 0/5                   | 0/5                    |
| B (Yamagata lineage)           | B/New Hampshire /01/2016 | 10 <sup>8.9</sup>  | 2x10 <sup>7.9</sup> | 4x10 <sup>6.9</sup> | 8x10 <sup>5.9</sup> | 1.6x10 <sup>5.9</sup> | 3.2x10 <sup>4.9</sup> | 6.4x10 <sup>3.9</sup> | 1.28x10 <sup>3.9</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 3/5                   | 0/5                   | 0/5                    |
| B (Yamagata lineage)           | B/Phuket/3073/2013       | 10 <sup>8.9</sup>  | 2x10 <sup>7.9</sup> | 4x10 <sup>6.9</sup> | 8x10 <sup>5.9</sup> | 1.6x10 <sup>5.9</sup> | 3.2x10 <sup>4.9</sup> | 6.4x10 <sup>3.9</sup> | 1.28x10 <sup>3.9</sup> |
|                                |                          | n/a  | 5/5                 | 5/5                 | 5/5                 | 5/5                   | 2/5                   | 0/5                   | 0/5                    |