

## Testcertificaat Particle Penetration



|                 |              |
|-----------------|--------------|
| Datum           | 4 april 2020 |
| Inkoopnummer    | -            |
| Lotnummer       | Z016         |
| Productnaam     | 5.1.1c       |
| Leverancier     | -            |
| Type mondmasker | KN-95        |

Voor het bepalen van de deeltjesdoorlaat van de mondmaskers zijn er testen uitgevoerd op 3 verschillende maskers. Per masker zijn er minimaal 5 metingen uitgevoerd. Onderstaand de gemiddelden van de 5 metingen per masker.

Klasse indeling conform NEN-EN 149

|       |               |
|-------|---------------|
| FFP 1 | : $\geq 80\%$ |
| FFP 2 | : $\geq 94\%$ |
| FFP 3 | : $\geq 99\%$ |

|             |           |
|-------------|-----------|
| Test medium | NaCl      |
| Flow        | 95 l/min. |

|                    | Gemiddelde rendement voor deeltjes $\geq 0,3\mu\text{m}$ | Pass or Fail t.o.v. P1/P2/P3 |
|--------------------|--|------------------------------|
| Masker 1           | 98,2%  | Pass for P2                  |
| Masker 2           | 98,9%  | Pass for P2                  |
| Masker 3           | 99,0%  | Pass for P3                  |
| Overall gemiddelde | 98,7%  | Pass for P2                  |

|                        |
|------------------------|
| Eindoordeel (P1/P2/P3) |
| Pass for P2            |

|      |        |
|------|--------|
| Naam | 5.1.2e |
|------|--------|

Bijlage : Ruwe data

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**KALIBRA** 

Datum 4 april 2020

Uitgevoerd door 5.1.2e

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|                      |               |
|----------------------|---------------|
| Gebruikte apparatuur |               |
| Aerosol generator    | 226 19 04 4C9 |
| Deeltjesteller 1     | X079-03       |
| Deeltjesteller 2     | X079-04       |
| Anemometer           | F024          |
| Drukmeter            | F011          |

| Masker | Meting | Deeltjesgrootte | Upstream    | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 1      | 1      | ≥ 0,3µm         | 110.426.489 | 2.003.754  | 98,19     | 98,21     |
|        | 2      |                 | 111.088.286 | 1.987.509  | 98,21     |           |
|        | 3      |                 | 111.477.453 | 1.979.387  | 98,22     |           |
|        | 4      |                 | 110.517.247 | 2.025.649  | 98,17     |           |
|        | 5      |                 | 113.375.970 | 1.956.432  | 98,27     |           |
|        | 1      | ≥ 0,5µm         | 7.749.450   | 42.024     | 99,46     | 99,47     |
|        | 2      |                 | 7.308.723   | 41.318     | 99,43     |           |
|        | 3      |                 | 7.463.048   | 40.611     | 99,46     |           |
|        | 4      |                 | 7.941.209   | 32.842     | 99,59     |           |
|        | 5      |                 | 7.582.412   | 45.909     | 99,39     |           |

| Masker | Meting | Deeltjesgrootte | Upstream    | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 2      | 1      | ≥ 0,3µm         | 114.329.112 | 1.306.995  | 98,86     | 98,89     |
|        | 2      |                 | 114.627.875 | 1.238.132  | 98,92     |           |
|        | 3      |                 | 110.930.429 | 1.208.821  | 98,91     |           |
|        | 4      |                 | 114.660.011 | 1.251.198  | 98,91     |           |
|        | 5      |                 | 112.555.963 | 1.300.992  | 98,84     |           |
|        | 1      | ≥ 0,5µm         | 7.332.384   | 21.188     | 99,71     | 99,66     |
|        | 2      |                 | 7.398.775   | 24.367     | 99,67     |           |
|        | 3      |                 | 7.156.164   | 23.307     | 99,67     |           |
|        | 4      |                 | 6.711.905   | 30.017     | 99,55     |           |
|        | 5      |                 | 7.345.450   | 24.014     | 99,67     |           |

| Masker | Meting | Deeltjesgrootte | Upstream    | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 3      | 1      | ≥ 0,3µm         | 108.911.843 | 1.069.086  | 99,02     | 99,00     |
|        | 2      |                 | 109.065.143 | 1.053.043  | 99,03     |           |
|        | 3      |                 | 115.734.636 | 1.158.674  | 99,00     |           |
|        | 4      |                 | 110.106.538 | 1.100.051  | 99,00     |           |
|        | 5      |                 | 109.013.549 | 1.142.429  | 98,95     |           |
|        | 1      | ≥ 0,5µm         | 7.115.198   | 19.776     | 99,72     | 99,66     |
|        | 2      |                 | 7.024.087   | 23.660     | 99,66     |           |
|        | 3      |                 | 7.401.600   | 27.545     | 99,63     |           |
|        | 4      |                 | 7.166.052   | 32.136     | 99,55     |           |
|        | 5      |                 | 7.006.076   | 19.423     | 99,72     |           |