Eurofins Medical Device Testing
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For the attention of Kelly Conner

Sample Information

Order Code: Confidential
Reception Date: 23-Sep-2020
Analysis Starting Date: 23-Sep-2020
Analysis Ending Date: 12-Nov-2020
Sample code Nr: 560-2020-00006491
Sample described as: Masks

Requirements and decision rule

Customer requirements: No requirements
Decision Rule: Not applicable.

Information provided by the customer*

Client Reference: EN 14863-19 & ASTM F2100-19
Sample Description: Confidential
Purchase Order Number: Confidential
<table>
<thead>
<tr>
<th>MASKS TESTING</th>
<th>CAS No.</th>
<th>RESULTS</th>
<th>UNC.</th>
<th>LOQ</th>
<th>GUIDELINES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analyses on: A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Determination of face mask materials efficiency to penetration by particulates (latex spheres)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTM F2299 / F2299M - 03(2017)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filtration Efficiency</td>
<td></td>
<td>99.82 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analysis Ending Date: 12/11/2020</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Particle diameter: 0.1 µm ± 0.015 µm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete test data reported at Annex.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
EXPLANATORY NOTE

- Test not covered by ENAC accreditation scope
- Test is subcontracted within Eurofins group and is accredited
- Test is subcontracted outside Eurofins group and is accredited
- Test is subcontracted outside Eurofins group and is not accredited
- N/A = Not Applicable

*Eurofins Textile Testing Spain S.L.U is not responsible of the information supplied by the customer and reported as section "Information provided by the customer".*

Eurofins General Sales Terms and Conditions Applied.

Results obtained refer only to samples, products or material received in Laboratory, as described in section "Sample information" and tested in conditions shown in present report.

Test uncertainties not reported are at customer disposal, for those tests in which it is possible to evaluate the test uncertainty.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, which for a normal distribution provides a level of confidence of approximately 95%.

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If you happen to have any comments, please do it by sending email to textile_spain@eurofins.com and referring to this report number.

End Of Report
DETERMINATION OF THE INITIAL EFFICIENCY OF MATERIALS USED IN MEDICAL FACE MASKS TO PENETRATION BY PARTICULATES USING LATEX SPHERES

Standard: ASTM F2299 / F2299M - 03(2017)
Number of test specimens: 5
Thickness: 1,43 mm
Unit area weight: 228,40 g/m²
Exposed specimen area: 23.8 cm²
Size of test specimen was facing towards the challenge aerosol: Inner
Face velocity: 6 cm/s
Pressure drop: -0.3 mmH₂O
Particle diameter: 0.1 µm ± 0.015 µm
Conditioning and test conditions: T⁰ between 19°C and 24°C, HR% between 30 and 50 % Hr
Pretreatment techniques used: No
Test duration: Three one-minute counts per specimen
Controls used: Three one-minute control counts were performed, without testing sample, before and after each 5 specimens. Control counts are averaged.
Testing date: 12/11/2020
Deviation from the stated method: Test aerosol is non-neutralized according to the FDA guidance document on surgical face masks.

Test results:

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Filtration Efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>99.86</td>
</tr>
<tr>
<td>2</td>
<td>99.83</td>
</tr>
<tr>
<td>3</td>
<td>99.83</td>
</tr>
<tr>
<td>4</td>
<td>99.76</td>
</tr>
<tr>
<td>5</td>
<td>99.82</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td><strong>99.82</strong></td>
</tr>
<tr>
<td>Standard Deviation</td>
<td>0.04</td>
</tr>
</tbody>
</table>