



Test report n° 20200028/01

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| Test information | |
|---------------------------|---|
| MATERIAL | FABRIC |
| ITEM | POLYGIENE - HSP Cleaning Towel "Viraloff" treated |
| METHOD | ISO 18184:2019 "Textiles – Determination of antiviral activity of textile products" |
| Date of receipt | 22 October 2020 |
| Samples | <ul style="list-style-type: none">• Treated sample: 20 x 20 mm;• Untreated sample: 20 x 20 mm;• All samples were sterilized at 121°C for 15 minutes;• Volume of test inoculum: 200 uL. |
| Conservation | Room temperature |
| Test temperature | 25°C ± 1°C |
| Incubation temperature | 37°C ± 1°C |
| Viral strain | SARS-CoV-2_COV2019 ITALY/INMI1 |
| Permissive host cell line | VERO E6 |
| Contact time | 2 h – 6 h |





Calculation of antiviral activity

Antiviral activity is calculated with the following formula:

$$M_v = \lg (V_a) - \lg (V_c)$$

where

M_v is the evaluation of antiviral activity

$\lg (V_a)$ logarithm of the mean of TCID₅₀ of the three replicates at time T0 detected on the control

$\lg (V_c)$ logarithm of the mean of TCID₅₀ of the three replicates at time T detected on the treated sample

Log TCID₅₀ inoculum: 6.5

| Control test | | | | | |
|------------------|--------------------------------|-------------------------|---|---------|-------|
| | Average Log TCID ₅₀ | TCID ₅₀ /1mL | Test valid if | Results | |
| Untreated sample | 4.08 | 10 ^{4.08} | (Lg TCID ₅₀ Untreated - Lg TCID ₅₀ Treated) < 0.5 | | |
| Treated sample | 3.75 | 10 ^{3.75} | | 0.17 | Valid |

Test results

| | Time | Average Log TCID ₅₀ Lg (V _a) | TCID ₅₀ / 1 mL | M | Test valid if |
|------------------|------|---|---------------------------|------|---------------|
| Untreated sample | T0 | 5.25 | 10 ^{5.25} | / | / |
| | T2 | 4.50 | 10 ^{4.50} | 0.75 | M<1.0 |
| | T6 | 4.33 | 10 ^{4.33} | 0.92 | |





| | Time | Average Log TCID ₅₀ Lg (V _c) | TCID ₅₀ /1 mL | M _v |
|----------------|------|---|--------------------------|-------------------|
| Treated sample | T2 | 3.08 | 10 ^{3.08} | 2.17 [-99,32%] |
| | T6 | 2.08 | 10 ^{2.08} | 3.17 [-99,93%] |

| Antiviral efficacy | |
|----------------------|------------------|
| $3.0 > M_v \geq 2.0$ | Good effect |
| $M_v \geq 3.0$ | Excellent effect |

This Test Report refers only to the sample tested; the name and description of the sample are declared by the Customer.
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° Test in service (same Group).

Prato, 09 November 2020

End of test Report



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