

Test report n° 20200030/01

**CBS MEDICAL S.R.L.**  
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<b>Test information</b>	
MATERIAL	PLASTIC MATERIAL
ITEM	<b>CBS Medical – Plastic film on the adhesive side – analysis for carpet production process with Biomaster antibacterial</b>
METHOD	<b>ISO 21702:2019 "Measurement of antiviral activity on plastics and other non porous surfaces"</b>
Date of receipt	05 November 2020
Samples	<ul style="list-style-type: none"> <li>• Treated sample: 5 x 5 cm<sup>2</sup>, 0.2 mm thick;</li> <li>• Untreated sample: 5 x 5 cm<sup>2</sup>, 0.1 mm thick;</li> <li>• Cover film: none, being adhesive plastic;</li> <li>• No sterilizing treatment as requested by the customer;</li> <li>• Volume of test inoculum: 400 uL.</li> </ul>
Conservation	Room temperature
Test temperature	25°C ± 1°C
Incubation temperature	37°C ± 1°C
Viral strain	<b>SARS-CoV-2_COV2019 ITALY/INMI1</b>
Permissive host cell line	VERO E6
Contact time	2 h – 6 h



### Calculation of antiviral activity

Antiviral activity is calculated with the following formula:

$$R = U_t - A_t$$

where

R is the evaluation of antiviral activity

$U_t$  is the mean of log TCID<sub>50</sub>/cm<sup>2</sup> of the 3 untreated samples at time  $T_x$

$A_t$  is the mean of log TCID<sub>50</sub>/cm<sup>2</sup> of the 3 treated samples at time  $T_x$

Log TCID<sub>50</sub> inoculum: 6.50

Cytotoxicity test						
	Media Log TCID <sub>50</sub>	TCID <sub>50</sub> /100 ml	S (TCID <sub>50</sub> / ml)	Test valid if	Results	
Negative control	4.75	10 <sup>4.75</sup>	$S_n = 10^{5.75}$	n/a	n/a	n/a
Untreated sample	4.58	10 <sup>4.58</sup>	$S_u = 10^{5.58}$	$ S_n - S_u  \leq 0.5$	0.17	Valid
Treated sample	4.50	10 <sup>4.50</sup>	$S_t = 10^{5.50}$	$ S_n - S_t  \leq 0.5$	0.25	Valid

### Test results

	Time	Average Log TCID <sub>50</sub>	TCID <sub>50</sub> /100 ml	N (TCID <sub>50</sub> /cm <sup>2</sup> )	$U_t$	R   $U_t - A_t$	Test valid if result is between
Untreated sample	T0	5.50	10 <sup>5.50</sup>	9.88x10 <sup>5</sup>	n/a	n/a	2.5 x 10 <sup>5</sup> – 1.2 x 10 <sup>6</sup> (TCID <sub>50</sub> /cm <sup>2</sup> )
	T2	5.25	10 <sup>5.25</sup>	5.56x10 <sup>5</sup>	5.74	n/a	n/a
	T6	5.16	10 <sup>5.16</sup>	4.51x10 <sup>5</sup>	5.65	n/a	n/a



	Time	Average Log TCID <sub>50</sub>	TCID <sub>50</sub> /100 ml	N (TCID <sub>50</sub> /cm <sup>2</sup> )	At	R  Ut-At	[% reduction versus T0]
Treated Sample	T2	5.00	10 <sup>5.00</sup>	3.13 x 10 <sup>5</sup>	5.49	0.25	68.4%
	T6	4.50	10 <sup>4.50</sup>	9.88 x 10 <sup>4</sup>	4.99	0.66	90%

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, 02 December 2020

End of test Report

The Responsible,

