


Test report n° 2100016/05

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Test information	
MATERIAL	AGGRECOAT SILVER (AGC-SI) Coating
ITEM	<p>ADDMASTER – Customer: AGGREBIND INC - Reference: V20125 – Sample: V20125 Treated , V20125 Untreated - Additive: 0.45% Biomaster AT300</p> 
METHOD	ISO 21702:2019 "Measurement of antiviral activity on plastics and other non porous surfaces"
Date of receipt	28 January 2021
Samples	<ul style="list-style-type: none"> • Treated sample: 50 x 50 mm², 1 mm thick; • Untreated sample: 50 x 50 mm², 1 mm thick; • Cover film: polypropylene film 40 x 40 mm², thickness 0.10 mm • All samples were disinfected with 70% EtOH; • Volume of test inoculum: 400 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	6h – 24h



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 TCID₅₀/cm² of the 3 untreated samples at time T_x

A_t is the mean of log TCID₅₀/cm² of the 3 treated samples at time T_x

Log TCID₅₀ inoculum: 6.88

Cytotoxicity test						
	Media Log TCID ₅₀	TCID ₅₀ /1 ml	S (TCID ₅₀ / ml)	Test valid if	Results	
Negative control	4.42	10 ^{4.42}	$S_n = 10^{4.42}$	n/a	n/a	n/a
Untreated sample	4.42	10 ^{4.42}	$S_u = 10^{4.42}$	$ S_n - S_u \leq 0.5$	0.00	Valid
Treated sample	4.17	10 ^{4.17}	$S_t = 10^{4.17}$	$ S_n - S_t \leq 0.5$	0.25	Valid

Test results

	Time	Average Log TCID ₅₀	TCID ₅₀ /1 ml	N (TCID ₅₀ /cm ²)	U_t	R $U_t - A_t$	Test valid if result is between
Untreated sample	T0	5.25	10 ^{5.25}	1.11 x 10 ⁶	n/a	n/a	2.5 x 10 ⁵ – 1.2 x 10 ⁶ (TCID ₅₀ /cm ²)
	T6	4.92	10 ^{4.92}	5.16 x 10 ⁵	5.71	n/a	n/a
	T24	3.42	10 ^{3.42}	1.63 x 10 ⁴	4.21	n/a	n/a



	Time	Average Log TCID ₅₀	TCID ₅₀ /1 ml	N (TCID ₅₀ /cm ²)	At	R Ut-At	[% reduction versus T0]
Treated Sample	T6	4.17	10 ^{4.17}	9.17 x 10 ⁴	4.96	0.75	91.68 %
	T24	2.08	10 ^{2.08}	7.57 x 10 ²	2.88	1.33	99.93 %

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, 22 February 2021

End of test Report

The Responsible,

