

DayShield™

Human Coronaviruses Test Report

Kills 99.9% of human coronaviruses (229E) in liquid state, including SARS-CoV2.

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5. Testing - Calculation of the virucidal activity on human coronavirus 229 E

Trial 1

The viral suspension was titrated at **6,375 log TCID₅₀**.

PRODUCT	Final concentration (v/v)	Time of exposure	Temperature	Viral titer (log TCID ₅₀)	Viral titer reduction
DAYSHIELD DISINFECTANT CLEANER & PROTECTOR	80%	30 min	20°C	2,125	4,250
		25 min		2,500	3,875
		20 min		3,500	2,875

The tested concentrations of product have a virucidal effect if the reduction in the viral titer is greater than or equal to 4.0 log.

Trial 2

The viral suspension was titrated at **6,375 log TCID₅₀**.

PRODUCT	Final concentration (v/v)	Time of exposure	Temperature	Viral titer (log TCID ₅₀)	Viral titer reduction
DAYSHIELD DISINFECTANT CLEANER & PROTECTOR	80%	30 min	20°C	2,125	4,250
		25 min		2,750	3,625
		20 min		3,875	2,500

The tested concentrations of product have a virucidal effect if the reduction in the viral titer is greater than or equal to 4.0 log.

6. Methodology validation

The assays were validated as required by the European standard EN 14476+A2:07-2019:

- The viral titers of the suspension tests were sufficient in order to observe a reduction of 4 log after time exposure with the product:
 - o 6,375 log TCID₅₀ for coronavirus.
- The virus was inactivated with the control solution of 0,7 % formaldehyde after 30 min of exposure:
 - o the reduction observed was of 1,875 log for the human coronavirus.
- The DAYSHIELD DISINFECTANT CLEANER & PROTECTOR product has a weak toxicity on the MRC5 cells.
- The tested product does not affect the infectious capacity of the viruses:
 - o For coronavirus, the differences in viral titers between the virus inoculated on MRC5 cells and the virus inoculated on the MRC5 cells treated with the product was ≤ 1,0 log (0,500 log).

File 6018/21/00001

Report R/21/21297A

Ce rapport ne concerne que l'échantillon soumis à l'analyse. Reproduction partielle interdite sans l'accord d'Analytica. Seul le rapport original fait foi.

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16/03/2021

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DayShield™

Germs reduction in 30 seconds Test Report

99.999% germs reduction in 30 seconds.

(Escherichia coli, Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus hirae)



TEST REPORT

Number: HKGH02683987

Result:

Test microorganism	Initial suspension (N) No = (1/10N) Criteria: $1.5 \times 10^8 \leq N \leq 5 \times 10^8$	Final count (Na)	R (Log ₁₀ Reduction) = Log No - Log Na Criteria: R ≥ 5.0	% Reduction Criteria: R ≥ 99.999	Assessment
<i>Escherichia coli</i> (ATCC 10538)	4.4×10^8	<140	>5.4	>99.999	Satisfactory
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	4.8×10^8	<140	>5.5	>99.999	Satisfactory
<i>Staphylococcus aureus</i> (ATCC 6538)	3.6×10^8	<140	>5.4	>99.999	Satisfactory
<i>Enterococcus hirae</i> (ATCC 10541)	3.8×10^8	<140	>5.4	>99.999	Satisfactory

Criteria: According to EN 1276, in order to satisfy the requirement of bactericidal efficacy of chemical disinfectants and antiseptics (for general purpose disinfection), the product shall demonstrate at least 5.0 log₁₀ reduction of the specified test organisms under the obligatory sample contact time, test temperature, and the simulated clean conditions according to its practical applications when the product is tested at its intended use dilution.

Sample received condition: DayShield Disinfectant Cleaner & Protector in closed plastic bottle.

Date sample received: Feb 03, 2021

Testing period: Feb 03, 2021 to Feb 11, 2021



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DayShield™

Escherichia coli Test Report

Kill >99.99% Escherichia coli in 60 seconds.



Date : 2020-05-05
No. : HC20040756

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Method(s) Used:

ASTM E2315-2016 (contact time : 1 minute & 5 minutes)

Test Result(s):

Antimicrobial Effectiveness against

Test Trial	DayShield	
	Escherichia coli 大腸桿菌 (ATCC 25922)	
Contact Time	1 minute	5 minutes
Average of controls (CFU/ml)	5,400,000	5,400,000
Average of samples (CFU/ml)	<10	<10
Bacteria Reduction Rate	>99.99%	>99.99%

Notes: - CFU/ml denotes Colony Forming Unit per milliliter
- > denotes larger than

$$\text{Bacteria Reduction Rate} = \frac{(\text{Average of controls} - \text{Average of samples}) \times 100}{\text{Average of controls}}$$

***** End of Test Report *****