BIOCLEAN BOX

Rapports de test

Rapport de test NéoVirTech - SRAS-COV-2 (Covid-19)

Rapport de test SGS - Bactéries :

- Staphylococcus aureus ATCC 6538
- Escherichia coli 8099
- Candida albicans ATCC 10231

Rapport de test SGS - Virus de la grippe

Toulouse, le 03 Novembre 2020

Objet : rapport de test de l'efficacité de désinfection UV d'un échantillon de masque chirurgical par le système Bioclean transmis par la société Advantelec.

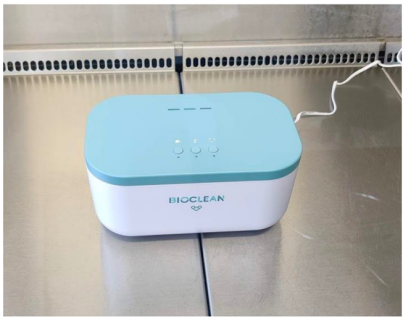
Dans le contexte de la lutte contre l'épidémie Covid19, l'entreprise NeoVirTech SAS a été sollicitée par la société Advantelec afin de tester sur virus SRAS-CoV-2 les capacités de désinfection de l'appareil Bioclean.

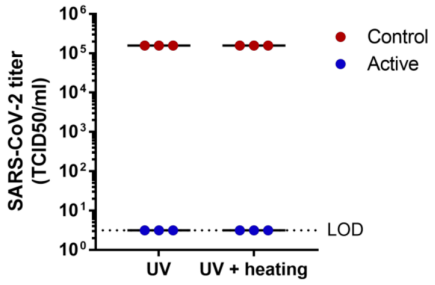
Description : Vérification de l'efficacité virucide UV testée dans des conditions expérimentales particulières sur un échantillon de masque chirurgical selon une méthode interne. Echantillon de masque infecté posé au centre du dispositif, efficacité testée sur la face supérieure du masque

Période d'analyse: Octobre 2020. Responsable du projet : Franck Gallardo, Ph.D.

Système testé : Appareil Bioclean, société Advantelec.

Méthode : la société NeoVirTech a procédé au test de l'appareil Bioclean en utilisant un échantillon de masque chirurgical contaminé avec du virus SRAS-CoV-2 sur la face extérieure (bleu, voir photo ci-dessous).





L'échantillon a été placé face contaminée vers le haut, directement sous les LED UV au centre de l'appareil. Les cycles de désinfection 1 (UV) et 2 (UV+chaleur) ont été testé. Dans ces conditions de test, nous avons calculé un abattement d'au moins 4log10 pour le SRAS-CoV-2 (graphique à droite). L'efficacité en fonction de la position de l'échantillon, de la face contaminée et de la présence d'encombrement dans l'appareil n'ont pas été testé.

La société NeoVirTech atteste que ce résultat a été obtenu avec le maximum de rigueur scientifique et validés par deux operateurs.

Franck Gallardo, Ph.D
Président NeoVirTech SAS

SAS NeoVirTech
1, Place Pierre Potier
Oncopole - Entrée 2
31000 - TOULOUSE
SIRET 800 203 739 00019

NeoVirTech
1, place Pierre Potier
31106
Toulouse
France

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Test Report

GZF20-019346-01 Date: 30 Sep 2020

Client Name: ADVANTELEC SAS
Client Address: 73 RUE MATHIEU DUSSURGEY,69190 ST FONS, FRANCE

Sample Name:	UV Sterilizer Box
Manufacturer:	/
Sample Batch No.:	/
Production Date:	/
Country of Destination:	FRANCE
Sample other information:	Trademark: BIOCLEAN BOX

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS Reference No. :	/
Date of Sample Received :	11 Sep 2020
Testing Period :	11 Sep 2020 - 29 Sep 2020
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Result(s) :	Please refer to next page(s).

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Test Report

GZF20-019346-01

Date: 30 Sep 2020

Sample Description :

Specimen No.	SGS Sample ID	Description
1	GZF20-019346.001	Equipment

Test Result(s) :

Test Requested : Sterilization efficacy evaluation

Test Method : Technical standard for disinfection (2002) Ministry of health of the people`s republic of China, 2.1.5.5

GZF20-019346.001

Test organism(s) Staphylococcus aureus ATCC 6538

	Repeat 1	Repeat 2	Repeat 3
Concentration of bacteria(cfu/mL)	1.5x10^8	1.4x10^8	1.4x10^8
Average survival bacteria from control sample (cfu/piece)	6.0x10^5	5.5x10^5	6.0x10^5
Average survival bacteria from sample (cfu/piece)	<5.0x10^0	<5.0x10^0	<5.0x10^0
Killing log value	>5.08	>5.04	>5.08
*Killing rate (%)	>99	>99	>99
Comment	Conform	Conform	Conform

Notes :

1. The glass was used at the carrier of the microbial sheet. During the test, the microbial sheet was placed at the bottom center of the box.
2. Test time: 10 min.
3. The sterilization is carried out in accordance with the instruction of product.
4. *The calculation formula of Killing rate is [(A-B)/A]*100%;
A: Average survival bacteria from control sample (cfu/piece)
B: Average survival bacteria from sample (cfu/piece)
5. The requirement of Technical standard for disinfection (2002) Ministry of health of the people`s republic

of China, 2.1.5.5.4: the killing log value ≥ 3.00.

Sample photo:

GZF20-019346.001

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Test Report

GZF20-019346-02 Date: 30 Sep 2020

Client Name: ADVANTELEC SAS
Client Address: 73 RUE MATHIEU DUSSURGEY,69190 ST FONS, FRANCE

Sample Name:	UV Sterilizer Box
Manufacturer:	/
Sample Batch No.:	/
Production Date:	/
Country of Destination:	FRANCE
Sample other information:	Trademark: BIOCLEAN BOX

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SGS Reference No. :	/
Date of Sample Received :	11 Sep 2020
Testing Period :	11 Sep 2020 - 29 Sep 2020
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Result(s) :	Please refer to next page(s).

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Test Report

GZF20-019346-02

Date: 30 Sep 2020

Sample Description :

Specimen No.	SGS Sample ID	Description
1	GZF20-019346.001	Equipment

Test Result(s) :

Test Requested : Sterilization efficacy evaluation

Test Method : Technical standard for disinfection (2002) Ministry of health of the people's republic of China, 2.1.5.5

GZF20-019346.001

Test organism(s) Escherichia coli 8099

	Repeat 1	Repeat 2	Repeat 3
Concentration of bacteria(cfu/mL)	1.6x10^8	1.5x10^8	1.5x10^8
Average survival bacteria from control sample (cfu/piece)	8.5x10^5	8.0x10^5	8.5x10^5
Average survival bacteria from sample (cfu/piece)	<5.0x10^0	<5.0x10^0	<5.0x10^0
Killing log value	>5.23	>5.20	>5.23
*Killing rate (%)	>99	>99	>99
Comment	Conform	Conform	Conform

Notes :

1. The glass was used at the carrier of the microbial sheet. During the test, the microbial sheet was placed at the bottom center of the box.
2. Test time: 10 min.
3. The sterilization is carried out in accordance with the instruction of product.
4. *The calculation formula of Killing rate is [(A-B)/A]*100%;
A: Average survival bacteria from control sample (cfu/piece)
B: Average survival bacteria from sample (cfu/piece)
5. The requirement of Technical standard for disinfection (2002) Ministry of health of the people`s republic

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of China, 2.1.5.5.4: the killing log value ≥ 3.00.

Sample photo:

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Test Report

GZF20-019346-03 Date: 30 Sep 2020

Client Name: ADVANTELEC SAS
Client Address: 73 RUE MATHIEU DUSSURGEY,69190 ST FONS, FRANCE

Sample Name:	UV Sterilizer Box
Manufacturer:	/
Sample Batch No.:	/
Production Date:	/
Country of Destination:	FRANCE
Sample other information:	Trademark: BIOCLEAN BOX

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SGS Reference No. :	/
Date of Sample Received :	11 Sep 2020
Testing Period :	11 Sep 2020 - 29 Sep 2020
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Result(s) :	Please refer to next page(s).

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Test Report

GZF20-019346-03

Date: 30 Sep 2020

Sample Description :

Specimen No.	SGS Sample ID	Description
1	GZF20-019346.001	Equipment

Test Result(s) :

Test Requested : Sterilization efficacy evaluation

Test Method : Technical standard for disinfection (2002) Ministry of health of the people's republic of China, 2.1.5.5

GZF20-019346.001

Test organism(s) Candida albicans ATCC 10231

	Repeat 1	Repeat 2	Repeat 3
Concentration of bacteria(cfu/mL)	1.3x10^8	1.4x10^8	1.3x10^8
Average survival bacteria from control sample (cfu/piece)	5.0x10^5	5.5x10^5	5.0x10^5
Average survival bacteria from sample (cfu/piece)	<5.0x10^0	<5.0x10^0	<5.0x10^0
Killing log value	>5.00	>5.04	>5.00
*Killing rate (%)	>99	>99	>99
Comment	Conform	Conform	Conform

Notes :

1. The glass was used at the carrier of the microbial sheet. During the test, the microbial sheet was placed at the bottom center of the box.
2. Test time: 10 min.
3. The sterilization is carried out in accordance with the instruction of product.
4. *The calculation formula of Killing rate is [(A-B)/A]*100%;
A: Average survival bacteria from control sample (cfu/piece)
B: Average survival bacteria from sample (cfu/piece)
5. The requirement of Technical standard for disinfection (2002) Ministry of health of the people`s republic

of China, 2.1.5.5.4: the killing log value ≥ 3.00.

Sample photo:

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Test Report **GZF20-019613-01** **Date: 26 Oct 2020**

Client Name:	ADVANTELEC SAS
Client Address:	73 RUE MATHIEU DUSSURGEY,69190 ST FONS, FRANCE
Sample Name:	Bioclean UV Sterilizer Box
Manufacturer:	/
Sample Batch No.:	/
Production Date:	/
Country of Destination:	FRANCE
Sample other information:	Trademark: BIOCLEAN BOX

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SGS Reference No.:	2020FM27032R01E
Date of Sample Received:	07 Sep 2020
Testing Period:	07 Sep 2020 - 26 Oct 2020
Test Requested:	Selected test(s) as requested by client.
Test Method:	Please refer to next page(s).
Test Result(s):	Please refer to next page(s).

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Test Report **GZF20-019613-01** **Date: 26 Oct 2020**

Sample Description:

Specimen No.	SGS Sample ID	Description
1	GZF20-019613.001	Equipment

Test result(s):
Virus inactivation test*
Test Method: Refer to Technical Standard for Disinfection (2002 Ministry of Health P.R.China)-2.1.5.5
Sample pretreatment: Use glass as a carrier to make a virus sheet and dry it naturally for later use, place the virus tablet in the center of the sample, and select the disinfection mode for testing.

Virus and host cell	Action time	Group	Logarithm of infectivity titre value $lgTCID_{50}/mL$	Infectivity titre of virus value $TCID_{50}/mL$	Logarithm reduction value (KL)	Virus inactivation ratio (%)
Influenza A virus H1N1 (A/PR/8/34) Host cell: MDCK	10min	Control group 1	5.67	4.68×10^5	-	-
		Control group 2	5.57	3.72×10^5	-	-
		Control group 3	5.67	4.68×10^5	-	-
		Test group 1	< 1.50	< 31.6	> 4.17	> 99.99
		Test group 2	< 1.50	< 31.6	> 4.07	> 99.99
		Test group 3	< 1.50	< 31.6	> 4.17	> 99.99

Remark:
1. Cells in the negative control group grew well, the results met all the requirements of the evaluation criteria.
2. *The test was carried out by external laboratory assessed as competent.

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Test Report **GZF20-019613-01** **Date: 26 Oct 2020**

Sample photo:

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