

SIGNIFY HONG KONG LIMITED

20th Floor, Tower 2, Enterprise Square, No.9 Sheung Yuet Road, Kowloon Bay

The following samples were submitted and identified by the client as:

UVC Disinfection Chamber

SGS Job No. : HKES2009001416LM

Model or type reference : UVCC200 80W

Trade Mark : PHILIPS

Manufacturer : Signify (China) Investment Co., Ltd

Manufacturer Address : Building no.9 Lane 888, Tianlin Road, Minhang District, Shanghai 200233, China

Sample receiving date(s) : 29 Sep, 2020

No. of sample(s) receipt : 1 pc

Sample testing period : 30 Sep, 2020 to 3 Nov, 2020

Test requested : UV Sterilization Test

Test method : Technical Standard for Disinfection (2002 Ministry of Health P.R. China) – 2.1.5.5

Test result : Please refer to next page(s)

Remark:

The test was carried out by external laboratory which is assessed as competent.

Signed for and on behalf of  
SGS Hong Kong Ltd.

Kevin-KH Chan

Assistant Technical Service Manager

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**Samples as Received**

- 1 pc UVC disinfection chamber (model: UVCC200 80W) was received



UVC Disinfection Chamber (model: UVCC200 80W) as Received



UVC Disinfection Chamber (model: UVCC200 80W) as Received

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**Executive Summary**

Selected Microorganism		Killing Rate
Bacteria	Escherichia coli (8099)	>99.99%
	Staphylococcus aureus (ATCC 6538)	>99.99%
Virus	Poliovirus –I vaccine strain (Host cell: Vero)	>99.99%

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**Test Details and Results**

● UV Sterilization Test

- Test Method
  - ◆ Technical Standard for Disinfection (2002 Ministry of Health P.R. China) - 2.1.5.5
- Test Location (refer to Photo Appendix)
  - ◆ Location A: Closed to the back of chamber (upper rack)
  - ◆ Location B: Closed to the chamber door (upper rack)
- Sterilization Condition
  - ◆ Sterilization duration = 10 minutes
- Selected Microorganism
  - ◆ Bacteria
    - Escherichia coli (8099)
    - Staphylococcus aureus (ATCC 6538)
  - ◆ Virus
    - Poliovirus –I vaccine strain (Host cell: Vero)
- Test Results
  - ◆ Bacteria

Test Organisms	Test Location	Test groups	Average number of positive controls (cfu / PCS)	Average number of testing groups (cfu / PCS)	Sterilization logarithm	Killing rate (%)
Escherichia coli 8099	Location A	1	4.0×10 <sup>6</sup>	<10	>5.60	>99.99
		2	4.2×10 <sup>6</sup>	<10	>5.62	>99.99
		3	4.4×10 <sup>6</sup>	<10	>5.64	>99.99
	Location B	1	4.0×10 <sup>6</sup>	<10	>5.60	>99.99
		2	4.2×10 <sup>6</sup>	<10	>5.62	>99.99
		3	4.4×10 <sup>6</sup>	<10	>5.64	>99.99
Staphylococcus aureus ATCC 6538	Location A	1	1.6×10 <sup>6</sup>	<10	>5.20	>99.99
		2	1.8×10 <sup>6</sup>	<10	>5.26	>99.99
		3	1.7×10 <sup>6</sup>	<10	>5.23	>99.99
	Location B	1	1.6×10 <sup>6</sup>	<10	>5.20	>99.99
		2	1.8×10 <sup>6</sup>	<10	>5.26	>99.99
		3	1.7×10 <sup>6</sup>	<10	>5.23	>99.99

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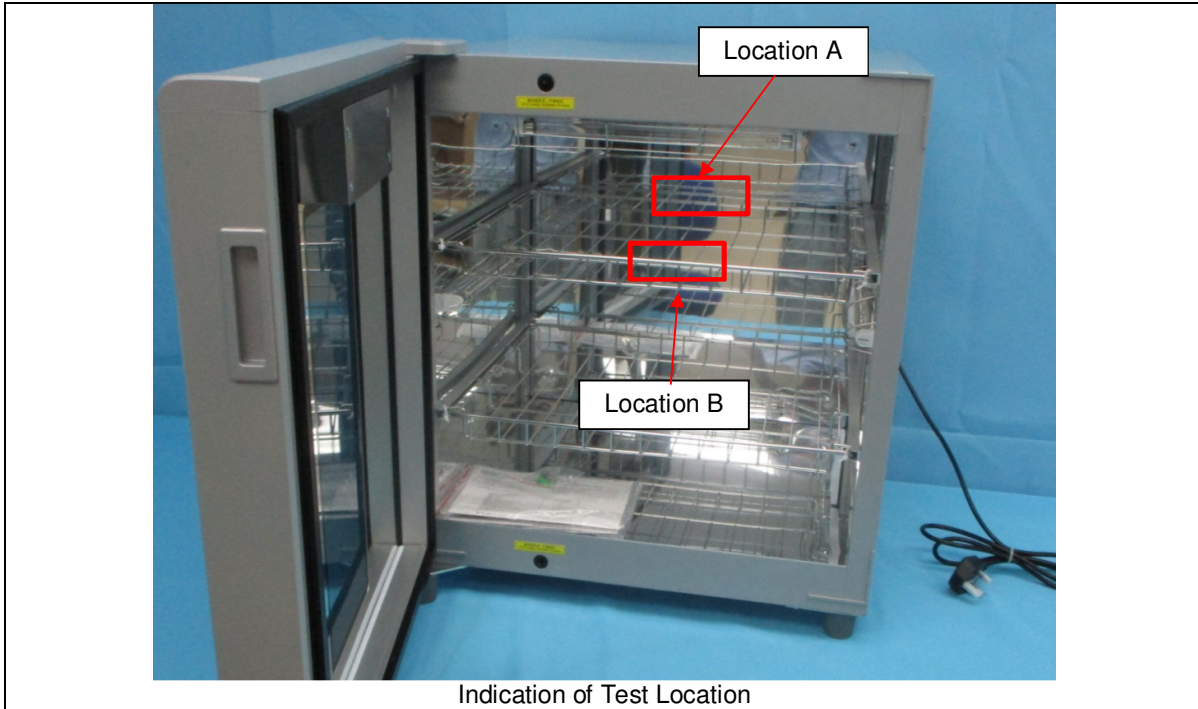
◆ Virus

Test Organisms	Test Location	Test groups	Logarithm of infectivity titre value (lgTCID <sub>50</sub> /ml)	Average logarithm of infectivity titre value (lgTCID <sub>50</sub> /ml)	Average infectivity titre value (TCID <sub>50</sub> /ml)	Logarithm reduction value (KL)	Killing rate (%)
Poliovirus-1 vaccine strain (Host cell: Vero)	Location A	Control Group 1	5.57	5.62	4.20x10 <sup>5</sup>	>5.12	>99.99
		Control Group 2	5.67				
		Test Group 1	<0.50	<0.50	<3.16		
		Test Group 2	<0.50				
	Location B	Control Group 1	5.57	5.62	4.20x10 <sup>5</sup>	>5.12	>99.99
		Control Group 2	5.67				
		Test Group 1	<0.50	<0.50	<3.16		
		Test Group 2	<0.50				

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### Photo Appendix



Indication of Test Location

\*\*\*\*\* End of report\*\*\*\*\*

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