



Korea Research Institute of Chemical Technology,
Center for Convergent Research of Emerging Virus Infection

Summary of Findings

HygenX™ Vray

According to the Korea Research Institute of Chemical Technology, Center for Convergent Research of Emerging Virus Infection, which conducted independent testing of the HygenX™ Vray on the human coronavirus strain, the Vray eliminated 99.997% of the coronavirus when used as follows:

- Hold Vray up to 10cm (approx. 4") from the object being sanitized for 1-2 minutes
- Hold Vray up to 20cm (approx. 8") from the object being sanitized for a minimum of 5 minutes

For specific test result details, see charts below:

Human Coronavirus (hCoV) Strain								
UV Lamp	Virus	Time (minutes)	Virus Titer (log CCID50/well)			Virus Reduction (log)		
			5cm	10cm	20cm (mW/cm ²)	5cm 0.996~1.22	10cm 0.575~0.595	20cm 0.185~0.190
Vray	hCoV	0	4.49	4.49	4.49	<0.00	<0.00	<0.00
Vray	hCoV	1	<0.00	<0.00	nt	>4.49	>4.49	nt
Vray	hCoV	2	<0.00	<0.00	nt	>4.49	>4.49	nt
Vray	hCoV	5	<0.00	<0.00	0.23	>4.49	>4.49	4.26
Vray	hCoV	10	nt	nt	<0.00	nt	nt	>4.49
Vray	hCoV	15	nt	nt	<0.00	nt	nt	>4.49

Human Coronavirus (hCoV) Strain								
UV Lamp	Virus	Contact Time (minutes)	Virus Titer (log CCID50/well)			Virus Reduction (%)		
			5cm	10cm	20cm (mW/cm ²)	5cm 0.996~1.22	10cm 0.575~0.595	20cm 0.185~0.190
Vray	hCoV	0	30,888	30,888	30,888	0%	0%	0%
Vray	hCoV	1	<1.0	<1.0	nt	>99.997%	>99.997%	nt
Vray	hCoV	2	<1.0	<1.0	nt	>99.997%	>99.997%	nt
Vray	hCoV	5	<1.0	<1.0	2	>99.997%	>99.997%	99.994%
Vray	hCoV	10	nt	nt	<1.0	nt	nt	>99.997%
Vray	hCoV	15	nt	nt	<1.0	nt	nt	>99.997%

nt = not tested



TEST FOR CO.

February 11, 2020

DATE

For the official test report, contact us.