

## TEST REPORT SUMMARY

Oct 23, 2020

#### Client: Siroca Inc.

## **Materials and Methods**

- 1. Test specimen: Laurastar Iggi Steam Iron
- 2. Viral strain: SARS-CoV-2
- 3. Host cells: VeroE6/TMPRSS2
- 4. The spray nozzle was placed at a distance of 1 mm from the virus-inoculated specimen and steam was sprayed for 5 or 10 seconds.
- 5. All the experiments were repeated two times independently and the number of viruses were determined by plaque assay (PFU/mL).
- 6. Antiviral activity value (Mv):  $Mv = log(Ct/C_0) log(Nt/N_0) = logCt/Nt$

Ct: mean virus titers after t hours recovered from the control specimens

C<sub>0</sub>: mean virus titers after 0 hours recovered from the control specimens

Nt: mean virus titers after t hours recovered from the test specimens

No: mean virus titers after 0 hours recovered from the test specimens

7. Antiviral performance criteria of Mv

<2No effect $3.0>Mv \ge 2.0$ Small effect $Mv \ge 3.0$ Full effect

#### Results

Summary of antiviral activity by Laurastar Iggi Steam Iron

	Contact time	0 sec	5 sec	10 sec
Plastic petri dish	Mv	-	>4.62	>4.62
	Reduction %	-	>99.997%	>99.997%
	Status	-	Full effect	Full effect
Polyester cloth	Mv	-	>4.56	>4.56
	Reduction %	-	99.997%	>99.997%
	Status	-	Full effect	Full effect
Cotton	Mv	-	>4.42	>4.42
	Reduction %	-	>99.996%	>99.996%
	Status	-	Full effect	Full effect

# Conclusion

Laurastar Iggi Steam Iron could inactivate SARS-CoV-2 by antiviral activity of steam.

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