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Jeffrey Mullen
Chief Executive Officer
Dynamics Inc.
493 Nixon Road
Cheswick, PA 15024

Dear Mr. Mullen:

My laboratory is located in the Galveston National Laboratory at the University of Texas Medical Branch, a facility constructed with funds from the National Institute of Health, National Institute of Allergy and Infectious Disease.

On September 25, 2020, we tested the Nanowave device developed by Dynamics Inc. to measure inactivation of aerosolized SARS-CoV-2. SARS-CoV-2 (WA-01 isolate) was aerosolized and moved through the Nanowave device at the maximum airflow capability of our laboratory. Virus was inactivated at the maximum airflow to the detection limits of the test. Details of the SARS-CoV-2 inactivation test are attached hereto as Appendix A.

Sincerely,

William Lawrence

William S. Lawrence, Ph.D.
Assistant Professor, Microbiology & Immunology
Director, Aerobiology Division
University of Texas Medical Branch
Galveston, TX 77555-0610

utmb Health

APPENDIX A

SARS-CoV-2 Inactivation With Dynamics Inc. Nanowave Technology

Test	Test Duration	Nebulizer	Biosampler 1 (Before Device)	Biosampler 2 (After Device)	Average Humidity
Nanowave device at 20 LPM when ON	10 min	2.5E+07	2.5+04	<50	86.71%
Nanowave device at 30 LPM when ON	10 min	2.5E+07	NA	<50	84.67%
Nanowave device at 20 LPM when OFF	10 min	2.5E+07	7.5E+04	7.5E+04	84.93%
Nanowave device at 30 LPM when OFF	10 min	5.0E+07	NA	7.5E+04	85.64%

Test Notes

- SARS-CoV-2 virus utilized was WA01 Strain.
- Biosampler 1 was placed before the Nanowave Device and is the control sample.
- Biosampler 2 was placed after the Nanowave Device.
- To achieve 30LPM, biosampler 1 was removed. Result was determined based on other correlated data.
- Values provided as Median Tissue Culture Infectious Dose / ml (TCID50/ml).
- Humidity was not controlled but was sampled 121 times during each test.