



CERTIFICATE OF ANALYSIS

ATCC® Number: VR-1986HK™
Lot Number: 70035039
Product Name: Heat Inactivated 2019 Novel Coronavirus
Classification: *Coronaviridae, Betacoronavirus, SARS-Related Coronavirus 2, Isolate USA-WA1/2020*
Volume: 250 µL
Product Format: Frozen heat inactivated virus preparation
Expiration Date: Not applicable
Storage Conditions: - 70°C or colder

Test / Method	Specification	Result
Pre-inactivation titer*	Report results	1.6 x 10 ⁵ TCID ₅₀ /mL
RNA copy number by ddPCR	Report results	3.75 x 10 ⁵ genome copies/µL
Viral inactivation: ≥ 10% of input seed is incubated with host cells under appropriate growth conditions	No viable infecting agent detected by visual observation	Pass

*Titer notes: Titer was determined prior to heat inactivation in 7 days on Vero E6 cells (ATCC® CRL-1586™) at 37°C with 5% CO₂ as determined by cytopathic effect. Tested on 01APR2020.

Program Manager, ATCC Federal Solutions

ATCC hereby represents and warrants that the material provided under this certificate is pure and has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and correct to the best of the company's knowledge and belief. This certificate does not extend to the growth and/or passage of any living organism or cell line beyond what is supplied within the container received from ATCC.

This product is intended to be used for laboratory research use only. It is not intended for use in humans, animals, or for diagnostics. Appropriate Biosafety Level (BSL) practices should always be used with this material. Refer to the Product Information Sheet for instructions on the correct use of this product.

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