

ABSTRACT

April 2020 Laboratory Testing of Human Coronavirus 229E GPS Needlepoint Bipolar Ionization (NPBI)

Global Plasma Solutions (GPS) Disclaimer:

GPS does not make performance validation claims using a single data point resource. GPS technology is used in a wide range of applications across diverse environmental conditions. It is the responsibility of the client to evaluate their application and environmental conditions in making an assessment regarding the technology's potential benefits in their use.



Test Parameters:

Organic Soil Load:	1% fetal bovine serum
Test Medium:	Minimum Essential Medium (MEM) supplemented with 2% (v/v) heat-inactivated, 100 units/mL penicillin, 10 µg/mL gentamicin, and 2.5 µg/mL amphotericin B
Indicator Cell Cultures:	WI-38 (human lung) cells

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Exposure Temperature:	Room temperature (22.0°C)
Exposure Humidity:	22.83% for the tests and cytotoxicity control 23.38% for the dried virus controls

Chamber Ion Concentrations x 1000:

Cytotoxicity control:	-0.36
1 Minute Exposure:	0.34
5 Minute Exposure:	0.46
15 Minute Exposure:	1.07
30 Minute Exposure:	0.86
60 Minute Exposure:	1.48

Test Result: 90% Reduction versus control after 60-minute exposure.

60 Minute Exposure A 1.00 log ₁₀ reduction in viral titer was demonstrated, per volume inoculated per well and per carrier, compared to the titer of the 60 minute dried virus control.
In the opinion of the Author, there were no circumstances that may have affected the quality or integrity of the data.

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