

455-102 SUMMARY REPORT

RESULTS

Results and data are presented in Tables 1 – 3. For this test, 0.2 mL of inoculum was applied to each carrier and allowed to dry for 30 minutes at 21C. All of the control cultures, including neutralizer effectiveness, cytotoxicity, plate recovery, column titer, virus stock titer, and cell viability including sterility, met the established criteria for a valid test. The PFUD₅₀ (plaque forming unit dose) per mL was determined from the virus stock, test, column titer and plate recovery data using the method of Reed and Muench, 1938.

Table 1

Test Results for BioText
Canine parvovirus

Dilution	Lot No. 026	Lot No. 038
10 ⁻¹	PNS	PNS
10 ⁻²	-----	-----
10 ⁻³	-----	-----
10 ⁻⁴	-----	-----
10 ⁻⁵	-----	-----
10 ⁻⁶	-----	-----
10 ⁻⁷	-----	-----
PFUD ₅₀ /mL	10 ^{1.50}	10 ^{1.50}

Key: - = No plaques observed

PNS = Post neutralized sample

Table 2

Control Results for Canine parvovirus

Dilution	Neutralizer Effectiveness	Cytotoxicity
10 ⁻¹	++++	PNS
10 ⁻²	++++	0 0 0 0
10 ⁻³	++++	0 0 0 0
10 ⁻⁴	++++	0 0 0 0

Table 3

Additional Control Results for Canine parvovirus

Dilution	Plate recovery	Column Titer Control	Virus Stock Titer
10^{-1}	PNS	PNS	++++
10^{-2}	++++	++++	++++
10^{-3}	++++	++++	++++
10^{-4}	++++	++++	++++
10^{-5}	++++	++++	++++
10^{-6}	-++-	+ - + +	++++
10^{-7}	----	----	+++ -
10^{-8}	ND	ND	----
PFUD ₅₀ /mL	$10^{6.00}$	$10^{6.33}$	$10^{7.33}$

Key: PNS = Post neutralized sample

ND = Not determined

+ = Plaques observed

- = No plaques observed

0 = No cytotoxicity observed

CONCLUSIONS

When tested as described, BioText, exposed to the challenge virus for 5 minutes, at $20 \pm 2^\circ\text{C}$, proved to be an effective virucidal agent against Canine parvovirus. The neutralizer was shown to be effective, and the controls demonstrated good infectivity of the challenge virus. These conclusions are based on observed data.