## Virus Titer of Stock (TCID₅₀)
- **Canine Parainfluenza Virus (Paramyxoviridae)**: 10⁷.5/mL
- **Canine Distemper Virus (Paramyxoviridae)**: 10⁶.7/mL
- **Canine Herpesvirus**: 10⁶.2/mL
- **Canine Adenovirus**: 10⁸.2/mL
- **Influenza Virus (H1N1) (Orthomyxoviridae)**: 10⁶.5/mL
- **Bovine Coronavirus (Coronaviridae group II, same group as Canine Respiratory Coronavirus)**: 10⁶.5/mL

## Titer Post PBS Treatment (TCID₅₀) (1:200 dilution of original stock + dialysis; 4 replicates)
- **Canine Parainfluenza Virus**: 10².5/mL
- **Canine Distemper Virus**: 10¹.7/mL
- **Canine Herpesvirus**: 10².2/mL
- **Canine Adenovirus**: 10⁶.8/mL
- **Influenza Virus (H1N1)**: 10¹.5/mL
- **Bovine Coronavirus**: 10³.7/mL

## Titer Post WysiWash Treatment (1:200 dilution of original stock + dialysis; 4 replicates)
- **Canine Parainfluenza Virus**: No growth in undiluted sample
- **Canine Distemper Virus**: No growth in undiluted sample
- **Canine Herpesvirus**: No growth in undiluted sample
- **Canine Adenovirus**: No growth in undiluted sample
- **Influenza Virus (H1N1)**: No growth in undiluted sample
- **Bovine Coronavirus**: No growth in undiluted sample

## Titer Post Clorox Treatment (1:200 dilution of original stock + dialysis; 4 replicates)
- **Canine Parainfluenza Virus**: No growth in undiluted sample
- **Canine Distemper Virus**: No growth in undiluted sample
- **Canine Herpesvirus**: No growth in undiluted sample
- **Canine Adenovirus**: No growth in undiluted sample
- **Influenza Virus (H1N1)**: No growth in undiluted sample
- **Bovine Coronavirus**: No growth in undiluted sample

WysiWash was evaluated for the inactivation of the canine respiratory viruses with the same protocol described for the previous study. Inactivation ranged from 6.8-1.5 logs, based on the titers of the control samples (diluted 1:100 with PBS, treated with PBS and dialyzed). The enveloped RNA viruses are not very stable in the environment (i.e., canine distemper virus and influenza virus) and did not survive the PBS control procedure well. Several attempts were made to increase the initial titers of these viruses, but increasing the titers had only minimal effects on the outcome of the study. Despite this difficulty, the WysiWash treatment performed as well as a 3% solution of Clorox for the inactivation of canine respiratory viruses.

Melissa Kennedy, DVM, PhD, DACVM
Director, Clinical Virology
Associate Professor
Department of Comparative Medicine
UTCVM
Knoxville, TN 37996-4543