

# Phileas<sup>®</sup> Genius<sup>®</sup> VHP biodecontamination of an Invivo<sub>2</sub> Guide

BAKER RUSKINN

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## Recommended Parameters:

1. Exit Atmosphere control. Keep UI on the Main screen.
2. Remove front viewscreen and place Phileas Genius inside main work area. Remove any equipment not intended to be decontaminated. Close electrical covers.
3. Place any Biological Indicators (BIs) or Chemical Indicators (CIs) desired throughout the work area.
4. Set a Zone with the following parameters:
  - a. Volume = 0.40 m<sup>3</sup>
  - b. Dose = 20 mL/m<sup>3</sup>
  - c. Delay = 2 min
  - d. Cycles = 5
5. Water may remain in the ultrasonic nebulizer chamber. It will not be affected.
6. Remove BIs and CIs after a MINIMUM of 2 hours to allow an appropriate soaking period.
7. After 5 hours, the internal concentration of VHP will have reduced to 0 ppm. The front viewscreen can be removed and the Phileas Genius taken out.



## Observations and Notes:

- Recommended locations for BIs and CIs to test for sufficient VHP decontamination would be all 8 corners, the center of the ceiling and the center of the work tray. All BIs and CIs should be negative for growth/positive for color change to be considered a successful decon.
- If desired, a VHP probe can be placed through the cable port to show internal ppm concentration (plug was cut and sealed around the cable to prevent leakage). Average effective concentration was 100-150 ppm. If the concentration reaches above 300ppm, the RH sensor is at risk.
- Remove Detox Sachets before beginning the decon procedure. This will hinder the effectiveness of the decon. We do not recommend having them present in the Invivo<sub>2</sub> during decon.
- The blue arm port covers must be in place. This protocol will not decontaminate the sleeves or attached gloves.
- The interlock must be closed during decon.
- The Hypoxic cycle increases the VHP concentration for unknown reasons. Do not do this in an attempt to “flush” the workstation.
- After monitoring for many hours after a decon, we did not see a resurgence of VHP, i.e. it does not off-gas later on. Once the VHP is down to 0 ppm, it is safe for users and cell culture to resume use.

