SUMMARY OF 3rd PARTY TESTING
THE PHARMA ROOM: SURFACE WASH

The following test results confirm that The Pharma Room: Surface Wash both meets & exceeds all requirements established by the EPA and Health Canada to be classified as both a:

- **Hospital (Medical) Grade Disinfectant**
- **Covid-19 Killer (30 second kill-time)**
- **15 Second Kill-Time on a Variety of Pathogens**

The product meets all 3rd party testing requirements for both a:

- **EPA registration #**
- **Health Canada DIN #**

"In order to qualify for a DIN for a hard surface disinfectant, disinfection efficacy must first be demonstrated against *Pseudomonas aeruginosa* (ATCC 15442) *and Staphylococcus aureus* (ATCC 6538) for a hospital disinfectant. The provided efficacy studies seems to be more than appropriate for review by Health Canada for a General/Broad Spectrum/Hospital Disinfectant with a specific claim against adenovirus type 5 and a direct claim against SARS-CoV-2."

-Representative, Health Canada, 2020-11-05
In response to criteria being met for DIN# approval & medical grade / Covid19 claims

STUDY # 1

Study Title
Virucidal Efficacy of a Test Substance on SARS-Related Coronavirus 2
Project #: A31602
Protocol #: WEA001090920.SARS2
Test Substance: The Pharma Room: Surface Wash (Lot SPTKT201020 and Lot SPTKT20817)
Dilution: Ready to use, trigger spray
Virus: SARS-Related Coronavirus 2, BEI Resources NR-52281, Strain Isolate USA-WA1/2020
Organic Soil Load: 5% fetal bovine serum
Exposure Temperature: Room temperature (20.08°C)
Exposure Humidity: 22.32%
Exposure Time: 30 seconds
Spray Application: 5 sprays at a distance of 4-6 inches
Neutralization: LH-20 Sephadex

Dried Virus Control Results
SARS-Related Coronavirus 2 = 5.00 $\log_{10}$/100µL (5.30 $\log_{10}$/carrier)

Cytotoxicity Control Results
Lot SPTKT201020 = ≤0.50 $\log_{10}$/100µL
Lot SPTKT20817 = ≤0.50 $\log_{10}$/100µL

Test Results
Lot SPTKT201020
Complete inactivation of the test virus was demonstrated [≤0.50 $\log_{10}$/100µL (≤0.80 $\log_{10}$/carrier)]. A ≥4.50 $\log_{10}$ reduction in viral titer was demonstrated. (PASSED)

Lot SPTKT20817
Complete inactivation of the test virus was demonstrated [≤0.50 $\log_{10}$/100µL (≤0.80 $\log_{10}$/carrier)]. A ≥4.50 $\log_{10}$ reduction in viral titer was demonstrated. (PASSED)

All test control results met acceptance criteria for a valid test. Test results meet EPA criteria for a virucidal label claim.

STUDY # 2

Study Title
AOAC Germicidal Spray Products as Disinfectants Test
Product Identity
Pharma Room: Surface Wash
Lots: 06120-1 /LCL, 06120-2/LCL, 06120-3/LCL
Test Microorganism

Pseudomonas aeruginosa ATCC 15442
Data Requirements
U.S. EPA OCSPP 810.2200

Study Conclusion:

Test substance Pharma Room: Surface Wash {Lots: 06120-1 /LCL, 06120-2/LCL, 06120-3/LCL) was tested against *Pseudomonas aeruginosa* ATCC 15442. A total of 60 contaminated carriers were exposed to each lot of the test substance for a contact time of l O minutes at a test temperature of {25.3°C-26.4°C} and then chemically neutralized.

Following a l O minute contact time, Surface Wash, Lot: 06120-l /LCL disinfected 60 out of 60 carriers; Lot: 06120-2/LCL disinfected 60 out of 60 carriers; and Lot: 06120-3/LCL disinfected 60 out of 60 carriers.

Under the conditions of this assay, Surface Wash Lots: 06120-1 /LCL, 06120-2/LCL, 06120-3/LCL met the requirements stated in the U.S. EPA Product Performance Test Guidelines - Disinfectants for Use on Environmental Surfaces as outlined in OCSPP 810.2200 and the success criteria detailed in the approved protocol.

STUDY # 3

Study Title
AOAC Germicidal Spray Products as Disinfectants Test
Product Identity
The Pharma Room: Surface Wash 500 ppm
Lots: 06120- l /LCL, 06120-2/LCL, 06120-3/LCL
Test Microorganism
Staphylococcus aureus ATCC 6538
Data Requirements
U.S. EPA OCSPP 810.2200

Test substance The Pharma Room: Surface Wash (Lots: 06120-1 /LCL, 06120-2/LCL, and 06120-3/LCL) was tested against Staphylococcus aureus ATCC 6538. A total of 60 contaminated carriers were exposed to each lot of the test substance for a contact time of 10 minutes at a test temperature of (23.3°C-23.8°C) and then chemically neutralized.

Following a 10 minute contact time, The Pharma Room: Surface Wash, Lot: 06120-1 /LCL disinfected 60 out of 60 carriers; Lot: 06120-2/LCL disinfected 60 out of 60 carriers; and Lot: 06120-3/LCL disinfected 59 out of 60 carriers.
Under the conditions of this assay, The Pharma Room: Surface Wash (Lots: 06120-1 /LCL, 06120-2/LCL, and 06120-3/LCL) met the requirements stated in the U.S. EPA Product

Performance Test Guidelines -Disinfectants for Use on Environmental Surfaces as outlined in OCSPP 810.2200 and the success criteria detailed in the approved protocol.

STUDY # 4

Study Title
Virucidal Efficacy of a Test Substance for Use on Inanimate, Nonporous Surfaces
Test Substance
Pharma Room:Surface Wash 500ppm
Lot Numbers: 06120-1/LCL, 06120-2/LCL
Test Microorganism
Adenovirus 5, Adenoid 75 strain, ATCC VR-5
Data Requirements
U.S. EPA OCSPP 810.2200

Study Conclusion:

The purpose of the study was to determine the virucidal efficacy of Pharma Room: Surface Wash (Lots: 06120-1/LCL and 06120-2/LCL) against Adenovirus 5, Adenoid 75 strain, ATCC VR-5 with no additional soil load incorporated into the inoculum, at a contact time of 10 minutes and an exposure temperature of room temperature.

The Plate Recovery Control demonstrated a viral titer of 6.00 log10 TCID50 per 0.1 ml and 6.30 log10 TCID50 per carrier, thereby satisfying U.S. EPA study acceptance criteria of a minimum of 4.80 log10 infective units per control carrier.

Taking the cytotoxicity and neutralization control results into consideration, the evaluated test substance demonstrated a ≥5.50 log10 reduction in viral titer for both lots assayed. No test substance cytotoxic effects to the host monolayer were observed in any dilution assayed for either lot of test substance (≤0.80 log10 TCD50 per carrier).

The test substance and control substance demonstrated comparable levels of infective units recovered in the Neutralization Control. No microbial contamination of any host cell cultures was observed during the course of the study.

Pharma Room: Surface Wash (Lots: 06120-1/LCL and 06120-2/LCL) met the U.S. EPA Product Performance Guidelines for Disinfectants for Use on Hard Surfaces outlined in U.S. EPA OCSPP 810.2200 and the success criteria detailed in the approved protocol when tested against Adenovirus 5, Adenoid 75 strain, ATCC VR-5 at a contact time of 10 minutes.

STUDY # 5

Study Title
Antibacterial Activity and Efficacy of Weatherskin's Test Substance Using a Suspension Time-Kill Procedure @ 15 seconds.
Test Method
ASTM International Method E2315
Assessment of Antimicrobial Activity using a Suspension Time-Kill Procedure
Test Substance Received: The Pharma Room: Surface Wash (500ppm)
Test substance was diluted to 200ppm with sterile deionized water prior to testing.
Test Microorganism Information
The test microorganism(s) selected for this test:
Clostridum sporogenes 3584, Enterococcus faecium 6569, Escherichia coli 11229, Listeria monocytogenes 15313

Study Conclusion:

Test Organism: **C. sporogenes**
Test Substance: The Pharma Room: Surface Wash 200 ppm
Average Plate Count: 160
Percent of Control: 93.84%
Neutralization Verified?: Yes

Contact Time: 15 seconds
CFU/ml: 1.95E+05
Percent Reduction Compared to Control @ Time Zero: 98.07%
Log_{10} Reduction Compared to Control @ Time Zero: 1.71

Test Organism: **E.faecium**
Test Substance: The Pharma Room: Surface Wash 200 ppm
Average Plate Count: 516
Percent of Control: 101.98%
Neutralization Verified?: Yes

Contact Time: 15 seconds
CFU/ml: <1.00E+00
Percent Reduction Compared to Control @ Time Zero: >99.999992%
Log_{10} Reduction Compared to Control @ Time Zero: >7.10

Test Organism: **E.coli**

Test Substance: The Pharma Room: Surface Wash 200 ppm
Average Plate Count: 384
Percent of Control: 80.67%
Neutralization Verified?: Yes

Contact Time: 15 seconds
CFU/ml: 9.00E+00
Percent Reduction Compared to Control @ Time Zero: 99.99991%
Log_{10} Reduction Compared to Control @ Time Zero: 6.04

Test Organism: **L.monocytogenes**
Test Substance: The Pharma Room: Surface Wash 200 ppm
Average Plate Count: 71.5
Percent of Control: 99.31%
Neutralization Verified?: Yes

Contact Time: 15 seconds
CFU/ml: 2.00E+00
Percent Reduction Compared to Control @ Time Zero: 99.9998%
Log_{10} Reduction Compared to Control @ Time Zero: 5.80

STUDY # 6

Study Title
Quantitative Antibacterial Activity and Efficacy of Test Substance
Test Method
ASTM International Method E2197
Test Method for Determining Bactericidal, Virucidal, Fungicidal, Mycobactericidal, and Sporocidal Activities of Chemicals
Test Substance Received: Surface Wash 500ppm
Test substance was diluted to 300ppm with sterile deionized water prior to testing.
Test Microorganism Information
The test microorganism(s) selected for this test:
Clostridium difficile 43598 (Endospores)

Study Conclusion:

Test Microorganism: **C.difficile 43598 (endospores)**
Contact Time: 10 minutes
Test Substance: The Pharma Room: Surface Wash – 748 ppm chlorine dioxide
Geometric Average CFU/Carrier: 8.37E+02
Percent Reduction Compared to Control After Contact Time: 99.989%
Log_{10} Reduction Compared to Control After Contact Time: 3.98

Test Microorganism: **C.difficile 43598 (endospores)**
Contact Time: 10 minutes
Test Substance: The Pharma Room: Surface Wash – 562 ppm chlorine dioxide
Geometric Average CFU/Carrier: 7.28E+03
Percent Reduction Compared to Control After Contact Time: 99.91%
Log_{10} Reduction Compared to Control After Contact Time: 3.04

Test Microorganism: **C.difficile 43598 (endospores)**
Contact Time: 10 minutes
Test Substance: The Pharma Room: Surface Wash – 750 ppm chlorine dioxide
Geometric Average CFU/Carrier: 1.05E+03
Percent Reduction Compared to Control After Contact Time: 99.987%
Log_{10} Reduction Compared to Control After Contact Time: 3.88

STUDY # 7

Study Title
Antibacterial Activity and Efficacy of Test Substance Using a Suspension Time-Kill Procedure
Test Method
ASTM International Method E2315
Assessment of Antimicrobial Activity using a Time-Kill Procedure
Test Substance Received: Surface Wash 500ppm
Test substance was diluted to 300ppm with sterile deionized water prior to testing.

Test Microorganism Information
The test microorganism(s) selected for this test:
Page 5 of 12
Staphylococcus aureus 6538

Study Conclusion:

(Reduction results matched for all test samples at all tested contact times)

Contact Time(s): 10 minutes, 3 minutes, 1 minute
Test Microorganism: **S.aureus ATCC 6538**
ATL Control: 535 ClO2 + 0.3%
CFU/ml: <5.00E + 00
Percent Reduction Compared to Control at Time Zero: >99.999986%
Log_{10} Reduction Compared to Control at Time Zero: >6.85

STUDY # 8

Study Title
Antibacterial Activity and Efficacy of Liquid Disinfectant
Test Method AOAC International Test Method 955.15
Testing Disinfectants Against S. aureus ATCC 6538: Use-Dilution Method
Test Substances Received: 535 ClO2 + 0.3% Surfactant
Test Microorganism Information
The test microorganism(s) selected for this test:
Staphylococcus aureus 6538

Study Conclusion:

Test Substance: 500 ppm Chlorine Dioxide Surface Wash
Test Microorganism: **S.aureus**
Soil Load: 5% Fetal Bovine Serum
Contact Time: 1 minute
Average CFU/Carrier: (Pre-test carriers) 2.65E + 06 (Post-test carriers) 2.45E + 06
Carriers Positive: 0
Carriers Negative: 10

STUDY # 9

Study Title
Antibacterial Activity and Efficacy of Liquid Disinfectants
Test Method
AOAC International Test Method 955.15
Testing Disinfectants Against S. aureus ATCC 6538: Use-Dilution Method
Test Substance Received: 309 PPM ClO2 + 0.3% Surfactant, 358 PPM ClO2 + 0.3% Surfactant, 405 PPM ClO2 + 0.3% Surfactant, and 462 PPM ClO2 + 0.3% Surfactant
Test Microorganism Information
The test microorganism(s) selected for this test:
Staphylococcus aureus 6538

Study Conclusion:

Test Substance: 309 ClO2 + 0.3% Surface Wash
Test Microorganism: **S.aureus 6538**

Soil Load: 5% Fetal Bovine Serum
Contact Time: 1 minute
Average CFU/Carrier: (Pre-test carriers) 7.55E + 06 (Post-test carriers) 1.30E + 06
Carriers Positive: 4
Carriers Negative: 6

Test Substance: 358 ClO2 + 0.3% Surface Wash
Test Microorganism: **S.aureus 6538**
Soil Load: 5% Fetal Bovine Serum
Contact Time: 1 minute
Average CFU/Carrier: (Pre-test carriers) 7.55E + 06 (Post-test carriers) 1.30E + 06
Carriers Positive: 1
Carriers Negative: 9

Test Substance: 405 ClO2 + 0.3% Surface Wash
Test Microorganism: **S.aureus 6538**
Soil Load: 5% Fetal Bovine Serum
Contact Time: 1 minute
Average CFU/Carrier: (Pre-test carriers) 7.55E + 06 (Post-test carriers) 1.30E + 06
Carriers Positive: 1
Carriers Negative: 9

Test Substance: 462 ClO2 + 0.3% Surface Wash
Test Microorganism: **S.aureus 6538**
Soil Load: 5% Fetal Bovine Serum
Contact Time: 1 minute
Average CFU/Carrier: (Pre-test carriers) 7.55E + 06 (Post-test carriers) 1.30E + 06
Carriers Positive: 1
Carriers Negative: 9

STUDY # 10

Study Title
Antibacterial Activity and Efficacy of Liquid Disinfectants
Test Method
AOAC International Test Method 955.15
Testing Disinfectants Against S. aureus ATCC 6538: Use-Dilution Method
Test Substance Received: 771 PPM ClO2 + 0.15% Surfactant and 578 PPM ClO2 + 0.15% Surfactant
Test Microorganism Information
The test microorganism(s) selected for this test:
Staphylococcus aureus 6538

Study Conclusion:

RESULTS FOR TEST SUBSTANCES 771 PPM ClO2 + 0.1% SURFACE WASH:

Test Microorganism: **S.aureus ATCC 6538**
Contact Time: 1 Minute
Test Substance: 771 ppm ClO2 + 0.1% Surface Wash
CFU/Carrier Pre Treatment: 2.55E+06
CFU/Carrier Post Treatment: 2.59E+06
Log_{10} Density Pre Treatment: 6.41
Log_{10} Density Post Treatment: 6.41
Mean Log_{10} Density: 6.41
Number of Carriers Tested: 30
Number of Positive Subculture/Neutralizer Test Tubes: 2
Number of Confirmed Positive Subculture/Neutralizer Test Tubes: 2/30

Test Microorganism: **S.aureus ATCC 6538**
Contact Time: 2 Minutes
Test Substance: 771 ppm ClO2 + 0.1% Surface Wash
CFU/Carrier Pre Treatment: 3.05E+0.6
CFU/Carrier Post Treatment: 5.18E+0.6
Log_{10} Density Pre Treatment: 6.48
Log_{10} Density Post Treatment: 6.71
Mean Log_{10} Density: 6.60
Number of Carriers Tested: 30
Number of Positive Subculture/Neutralizer Test Tubes: 3
Number of Confirmed Positive Subculture/Neutralizer Test Tubes: 3/30

Test Microorganism: **S.aureus ATCC 6538**
Contact Time: 5 Minutes
Test Substance: 771 ppm ClO2 + 0.1% Surface Wash
CFU/Carrier Pre Treatment: 3.50E + 06
CFU/Carrier Post Treatment: 3.77E + 06
Log_{10} Density Pre Treatment: 6.54
Log_{10} Density Post Treatment: 6.58
Mean Log_{10} Density: 6.56
Number of Carriers Tested: 30
Number of Positive Subculture/Neutralizer Test Tubes: 0
Number of Confirmed Positive Subculture/Neutralizer Test Tubes: 0/30

RESULTS FOR TEST SUBSTANCES 578 PPM ClO2 + 0.1% SURFACE WASH:

Test Microorganism: **S.aureus ATCC 6538**
Contact Time: 1 Minute
Test Substance: 578 ppm ClO2 + 0.1% Surface Wash
CFU/Carrier Pre Treatment: 3.27E + 06
CFU/Carrier Post Treatment: 4.18E + 06
Log_{10} Density Pre Treatment: 6.51
Log_{10} Density Post Treatment: 6.62

Mean Log 10 Density: 6.57
Number of Carriers Tested: 30
Number of Positive Subculture/Neutralizer Test Tubes: 4
Number of Confirmed Positive Subculture/Neutralizer Test Tubes: 4/30

Test Microorganism: **S.aureus ATCC 6538**
Contact Time: 2 Minutes
Test Substance: 578 ppm ClO2 + 0.1% Surface Wash
CFU/Carrier Pre Treatment: 5.09E + 06
CFU/Carrier Post Treatment: 6.55E + 06
Log10 Density Pre Treatment: 6.71
Log10 Density Post Treatment: 6.82
Mean Log 10 Density: 6.77
Number of Carriers Tested: 30
Number of Positive Subculture/Neutralizer Test Tubes: 2
Number of Confirmed Positive Subculture/Neutralizer Test Tubes: 2/30

Test Microorganism: **S.aureus ATCC 6538**
Contact Time: 5 Minutes
Test Substance: 578 ppm ClO2 + 0.1% Surface Wash
CFU/Carrier Pre Treatment: 5.86E + 06
CFU/Carrier Post Treatment: 4.82E + 06
Log10 Density Pre Treatment: 6.77
Log10 Density Post Treatment: 6.68
Mean Log 10 Density: 6.73
Number of Carriers Tested: 30
Number of Positive Subculture/Neutralizer Test Tubes: 1
Number of Confirmed Positive Subculture/Neutralizer Test Tubes: 1/30

SUMMARY RESULTS:

Test Microorganism: **S.aureus ATCC 6538**
Test Substance: 771 ppm ClO2 + 0.1% Surface Wash
Average Inoculum Concentration: 18
Neutralization Validation Result: Positive Growth

Test Microorganism: **S.aureus ATCC 6538**
Test Substance: 578 ppm ClO2 + 0.1% Surface Wash
Average Inoculum Concentration: 34
Neutralization Validation Result: Positive Growth

Study Controls	Result
Carrier Sterility Control Tube	No Growth Observed
Viability Control Tube	Growth-Target Microorganism
Neutralization Media Control Tube	No Growth Observed
Growth Media Control Plate	No Growth Observed
Soil Sterility Control Plate	No Growth Observed
PBS Sterility Control Plate	No Growth Observed
Microorganism Purity Plate	Pure-Target Microorganism

STUDY # 11

Study Title
Quantitative Antibacterial Activity and Efficacy of Test Substances **Test Method**
ASTM International Method E2197
Test Method for Determining Bactericidal, Virucidal, Fungicidal, Mycobactericidal, and Sporocidal Activities of Chemicals
Test Substance Received: 2-Part ClO2 Product with Surfactant Yield1023PPM ClO2 and 2-Part ClO2
Product with Surfactant Yields 1300 PP ClO2
Test Microorganism Information
The test microorganism(s) selected for this test:
Clostridium difficile 43598 (Endospores)

Study Conclusion:

Test Microorganism: **C.difficile 43598 (endospores)**
Contact Time: 10 minutes
Test Substance: The Pharma Room: Surface Wash – 1023 ppm chlorine dioxide
Geometric Average CFU/Carrier: <4.52E+02
Percent Reduction Compared to Control After Contact Time: 99.98%
Log_{10} Reduction Compared to Control After Contact Time: 3.79

Test Microorganism: **C.difficile 43598 (endospores)**
Contact Time: 10 minutes
Test Substance: The Pharma Room: Surface Wash – 1300 ppm chlorine dioxide
Geometric Average CFU/Carrier: 1.00E+02
Percent Reduction Compared to Control After Contact Time: 99.99996%
Log_{10} Reduction Compared to Control After Contact Time: 6.44

STUDY # 12

ANALYTICAL TESTING REPORT

Customer sample Id.: 1.Chlorine Dioxide/500 ppm
Label / Product Name Id.: The Pharma Room: Surface Wash
ECA Sample Number(s): 1. 20102a
Date Received: 04-04-20
Method Reference: 1. Odor/OPPTS: 830.6304
2. Oxidation/Reduction/Chemical Incompatibility/
OPPTS 830.6314
3. Impurities: OPPTS/830.1670
4. Physical State/OPPTS 830.6303
5. Preliminary Analysis/OPPTS 830.6303/Assay

Test Sample: The Pharma Room Surface Wash (500 ppm Chlorine Dioxide)

Odor/ OPPTS: 830.6304
Odor: Characteristic of chlorine containing compounds

Active Ingredient:
Chlorine Dioxide: 392 ppm

Oxidation/Reduction/ Chemical Incompatibility:
OPPTS 830.6314

Addition of potassium permanganate to liquid, no obvious reaction/ addition of 30% hydrogen peroxide: no obvious reaction.

Impurities:
OPPTS/830.1670

Impurities Analysis:
chloride: 992.67 ppm
sodium: 367 ppm
potassium: 0.3 ppm
phosphorus: 0.1 ppm

Physical State/
OPPTS 830.6303

Physical State:
Liquid

Preliminary Analysis/
OPPTS 830.6303/Assay