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Project No. A01696  
Protocol Number: SMT01080603.COR

Selective Micro Technologies

**ATS LABS**

## SUMMARY OF RESULTS

Test Substance: Selective Micro Clean-Alpha, Lot 3302-01 and Lot 3304-01 (**BRANDED AS FIT FRESH**)

Dilution: Approximate 100 ppm ClO<sub>2</sub> solution in 250 ppm in AOAC Synthetic Hard Water

Virus: Human Coronavirus, ATCC VR-740, Strain 229E

Exposure Time: Ten minutes

Exposure Temperature: Room temperature

Organic Soil Load: 5% fetal bovine serum

Efficacy Result: Two lots of Selective Micro Clean-Alpha met the test criteria specified in the study protocol. The results indicate **complete inactivation** of Human Coronavirus under these test conditions as required by the U.S. EPA for claims of virucidal activity.

## TEST SYSTEM

- Virus

The 229E strain of Human Coronavirus used for this study was obtained from the American Type Culture Collection, Manassas, VA (ATCC VR-740). The stock virus was prepared by collecting the supernatant culture fluid from infected culture cells. The cells were disrupted and cell debris removed by centrifugation at approximately 2000 RPM for five minutes at approximately 4°C. The supernatant was removed, aliquoted, and the high titer stock virus was stored at ≤ -70°C until the day of use. On the day of use, an aliquot of stock virus (ATS Labs Lot HCV-28) was removed, thawed and refrigerated until use in the assay. The stock virus culture contained 5% fetal bovine serum as the organic soil load. The stock virus tested demonstrated cytopathic effects (CPE) typical of Human Coronavirus on MRC-5 cells.
- Test Cell Cultures

MRC-5 (human embryonic lung) cells were obtained from ViroMed Laboratories, Inc., Cell Culture Division. Cultures were maintained and used as monolayers in disposable tissue culture labware. On the day of testing, cells were observed as having proper cell integrity and therefore, were acceptable for use in this study.
- Test Medium

Test medium used in this study was Eagle's minimal essential medium (E-MEM) supplemented with 2% heat-inactivated fetal bovine serum (FBS), 10 µg/mL gentamicin, 100 units/mL penicillin, and 2.5 µg/mL amphotericin B (Fungizone).



**THE EPA HAS REVIEWED THIS DATA AND HAS APPROVED FIT FRESH FOR DISINFECTANT CLAIMS AGAINST CORONAVIRUS**

**(EPA REGISTRATION NUMBER CIRCLED ON LABEL BELOW)**



**FIT FRESH ANTIBACTERIAL PRODUCE WASH**

*Kills E. coli, Listeria, and Salmonella*

**Ingredients approved for tank mixing:**

Citric Acid, Organic Berry Saponins, Sodium Carbonate (For removing waxes and residues)

**Intended Use:** As an antimicrobial dip or a spray to control food spoilage microbes on raw agricultural commodities (RACs), as well as non-RAC fruits and vegetables

**Generates Pure Chlorine Dioxide to Control Food-Spoilage and Pathogenic Microorganisms**

Part Number: 850-17030

EPA Reg. No.: 74986-5

**FDA Approved Food Contact Substance for Reduction in Microbial Contamination**

**Applications for RAC & Non-RAC Fruits and Vegetables**

- EFFECTIVE ON WHOLE AND CUT OR PROCESSED FRUITS AND VEGETABLES • CONTROLS SPOILAGE ORGANISMS, EXTENDING PRODUCE SHELF LIFE AND REDUCING WASTE
- THIS PRODUCT HAS BEEN SHOWN TO REDUCE POPULATIONS OF OF E. COLI, LISTERIA, AND SALMONELLA BY 99.9% ON WASHED PRODUCE! • DOES NOT REQUIRE RINSE, LEAVES NO RESIDUE

- Use as dip or spray
- Controls food-spoilage and pathogenic microorganisms, thereby extending freshness, appearance and shelf-life

**Instructions for Mixing:**

**Instructions for Use:**

**Active Ingredient:**

Sodium Chlorite.....	30.5%
Other Ingredients.....	69.5%
Total.....	100.0%

Net Weight of contents..... 5.4 ounces (153.6 grams)  
Amount of Chlorine Dioxide generated = 0.01% in 100 liters of water

**KEEP OUT OF REACH OF CHILDREN  
— DANGER —**

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Remove victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. Get medical attention.

Have the product container or label with you when calling a poison control center, doctor, or going for treatment.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.



**FDA APPROVED & EPA REGISTERED**

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** DRY INGREDIENTS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND CAUSES SKIN BURNS. HARMFUL IF SWALLOWED. WEAR PROTECTIVE EYEWEAR (GOGGLES, FACE SHIELD OR SAFETY GLASSES) WHEN HANDLING DRY INGREDIENTS. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING, GUM, USING TOBACCO OR USING THE TOILET. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. ACTIVATED SOLUTION: CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. AVOID BREATHING VAPORS. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM OR USING TOBACCO.

**PHYSICAL OR CHEMICAL HAZARDS**

DRY SODIUM CHLORITE IS INCOMPATIBLE WITH ACIDS, REDUCING AGENTS, COMBUSTIBLE MATERIALS, SULFUR-CONTAINING RUBBER, SOLVENTS AND PAINTS. KEEP ACTIVATED SOLUTION FROM LIGHT AND HEAT. CHLORINE DIOXIDE GAS MAY CONCENTRATE IN OPEN SPACE OF CONTAINER IN WHICH A12 ENVELOPE IS ACTIVATED. ALWAYS DILUTE ACTIVATED PRODUCT IN WELL-VENTILATED AREA. DO NOT REMOVE A12 FROM CONTAINER OF WATER PRIOR TO COMPLETE GENERATION—2 HOURS AFTER EXPOSURE TO WATER.

**NOTE:** For use in the institutional or commercial applications discussed below and in the accompanying Technical Bulletin.

**When used as directed, this chlorine dioxide-generating product is proven effective as a sanitizer (99.99%) against E. coli (and E. coli O157:H7), S. aureus, Salmonella typhimurium (MDRS), Klebsiella pneumonia, and Listeria monocytogenes**

- FOR HARD, NON-POROUS FOOD CONTACT SURFACES
- TO REDUCE CONCENTRATIONS OF SPOILAGE MICROBES ON RAW AGRICULTURAL COMMODITIES (RAC) INTENDED FOR COMMERCIAL FOOD PROCESSING
- TO INHIBIT SPOILAGE MICROBIAL GROWTH IN WATER USED TO PROCESS FRUITS AND VEGETABLES AND IN WATER USED TO WASH FRUITS AND VEGETABLES.

**This product is approved for use under SMT Food Contact Notifications**

- GENERATES CHLORINE DIOXIDE TO REDUCE FOOD-SPOILAGE AND PATHOGENIC ORGANISMS ON PROCESSED FRUITS AND VEGETABLES.

**Storage and Disposal:** Do not contaminate water, food or feed by storage and disposal. Store in cool, dry, ventilated area. Store below 50° C (122° F). Keep product out of direct sunlight. Store separately from water and acids. If package ruptures and contents spill, do not permit contact of contents with organic materials (for example: clothing or combustible materials) or acids. Nonrefillable container. Do not reuse or refill this container. Completely empty activated solution in pouch into application equipment. Offer for recycling, if available, or dispose of empty pouch in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Warranty Statement:** The Company warrants the product to be free from defects in material and workmanship. THE COMPANY MAKES NO WARRANTY THAT THE GOODS SHALL BE MERCHANTABILITY. THE COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, EXCEPT SUCH AS IS EXPRESSLY SET FORTH HEREIN. The Company shall not be liable for any incidental or consequential damages for any breach of warranty. The Company's liability for any breach of warranty shall be limited to the purchase price of the product.

Manufactured for: Selective Micro Technologies 6200 Avery Rd., Suite A, Dublin, OH 43016 www.selectivemicro.com

Distributed by: HealthPro Brands, PO Box 867, Mason, OH 45040 www.FitOrganic.com

**Read Product SDS Before Use. Read Product Technical Bulletin for Dilution and Application Rates.**

<sup>1</sup>When used according to FDA FCN