**SUPPLEMENTAL INFORMATION**

***In vitro* intestinal toxicity of commercially available spray disinfectant products advertised to contain colloidal silver**

Kim R. Rogers1\*, Taylor E. Henson2, Jana Navratilova1, Mark Surette1, Michael F. Hughes2,

Karen D. Bradham1, Aleksandr B. Stefaniak3, Alycia K. Knepp3 and Lauren Bowers3

*1Watershed and Ecosystem Characterization Division, Center for Environmental Measurement and Modeling, USEPA, RTP, NC 27711*

*2Methods and Characterization Division, Center for Environmental Measurement and Modeling, USEPA, RTP, NC 27711*

*3National Institute for Occupational Safety and Health, Morgantown, WV*

*\*Corresponding author: 109 T.W. Alexander Drive, U.S. EPA, Research Triangle Park, NC 27711, United States, Telephone: +1-919-541-3086; Email: rogers.kim@epa.gov*

Table S-1. Characteristics of Colloidal Silver Product Suspensions

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Product pH Cl- (ppm) S (ppm)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 6.6 BDL 27.9

2 7.9 39.8 40.4

3 10.6 25.1 BDL

4 10.0 25.3 BDL

5 2.5 10.6 9.8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

BDL Below Detection Limit

Table S-2. Estimated Total Ag Doses from Recommended Product Use

Product Product Application Total Measured Ag Recommended Dose Dose/Day (External, Internal) (mg/L) (mL) (ug Ag)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 Internal 18.9 0.4 7.6

2 Both 961 1 961

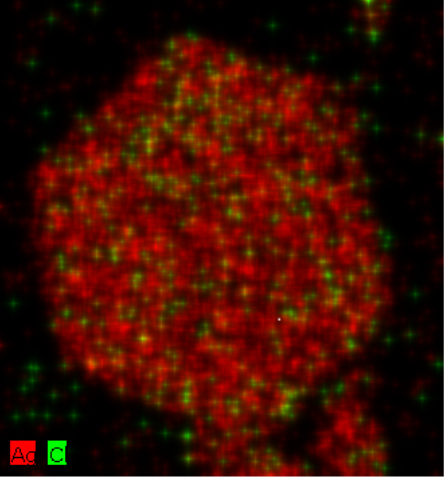
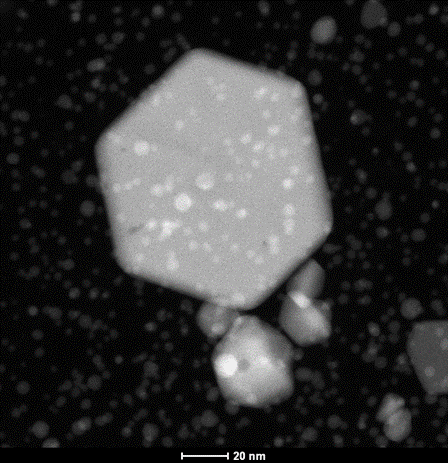
3 External 6.0 Light Spray ND

4 External 6.1 Light Spray ND

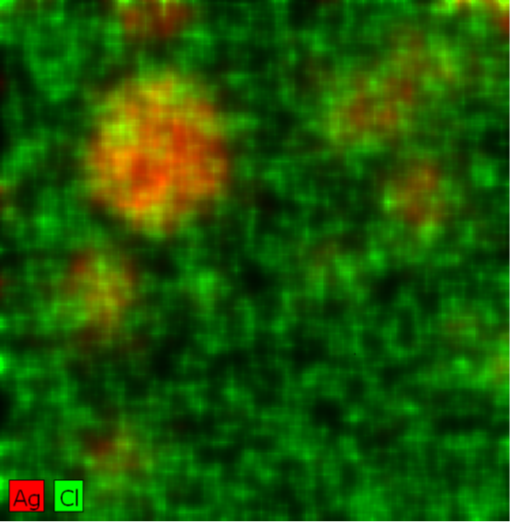
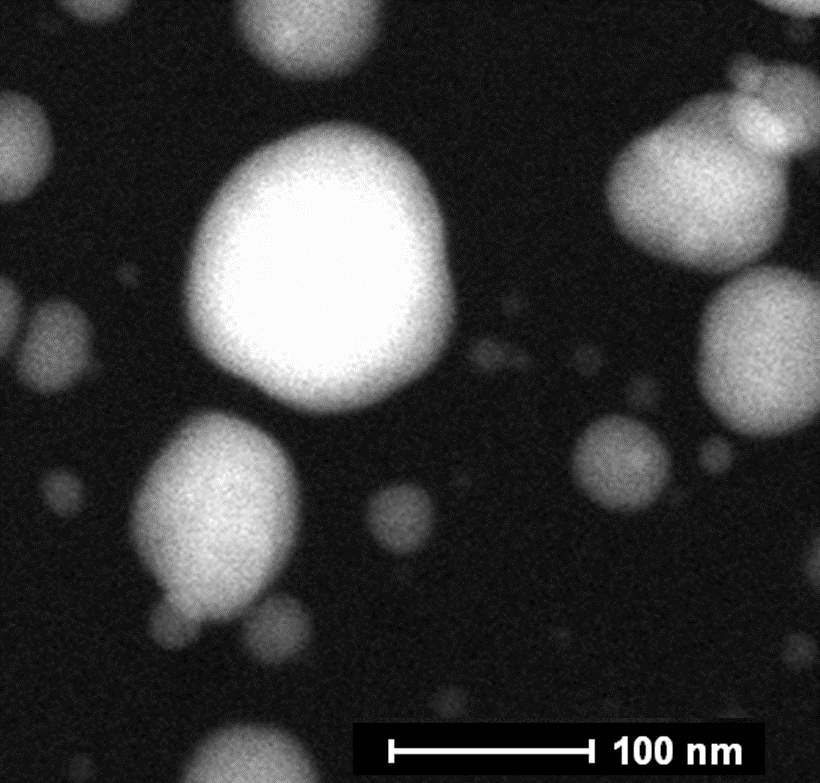
5 External 8.7 Hard Surface Spray ND

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ND Not Determined

****

A

****

B

**Figure S-1 TEM Images and EDS False Color Images.** Product 2 (A) without exposure to SSF or (B) with exposure to SSF. Red represents Ag, green represents Cl.