Bi⇔Safe Systems

22 Meadow Street East Hartford, CT 06108

Phone: 860.290.8890 Fax: 860.290.8802

E-mail: info@biosafesystems.com

Web: biosafesystems.com

Test Report

Date: 02/14/2018

Attn: Michael Applewhite

Type of Test: Egg shell surface sanitation with SaniDate Sanitizing Wipes at a commercial

hatchery.

Test Method(s) and Material(s):

Using a commercial environmental sterile swab kit, swab samples were collected from egg shell surfaces from a commercial hatchery before and after wiping with SaniDate Sanitizing Wipes and sent to BioSafe Systems Laboratory for microbial analysis.

Number of swab samples received: 20

Type of Microbial Analyses conducted on samples:

Total Aerobic Bacteria/Aerobic Plate Count (APC) in CFU/swab (Total: Includes Pathogenic and/or Non-Pathogenic)

Total Coliforms and E. coli in CFU/swab

Test Method(s): Standard microbial analysis procedures developed to enumerate Total Aerobic Bacteria/Aerobic Plate Count (APC), Total Coliforms and *E. coli* were used to perform the tests.

Test Results:

Results of microbial analyses of swab samples are presented in Table 1; Fig.1.

Table 1. Microbial Analysis of Swab Samples

Swab Sample	Designation	APC ^a /Swab	Coliforms ^b /Swab	E. coli ^b /Swab
1	Before Treatment	214,500	0	0
	After Treatment	7,500	0	0
2	Before Treatment	19,200	0	0
	After Treatment	900	0	0
3	Before Treatment	17,550	0	0
	After Treatment	18,000	0	0
4	Before Treatment	31,950	0	0
	After Treatment	2,100	0	0

The BioSecurity Company

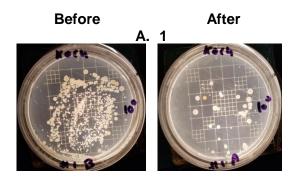
5	Before Treatment	33,900	0	0
	After Treatment	2,850	0	0
6	Before Treatment	28,500	0	0
	After Treatment	15,450	0	0
7	Before Treatment	195,000	0	0
	After Treatment	2,850	0	0
9	Before Treatment	240,000	0	0
	After Treatment	600	0	0
	Before Treatment	32,850	0	0
	After Treatment	1,350	0	0
10	Before Treatment	177,000	255,000	0
	After Treatment	7,800	0	0

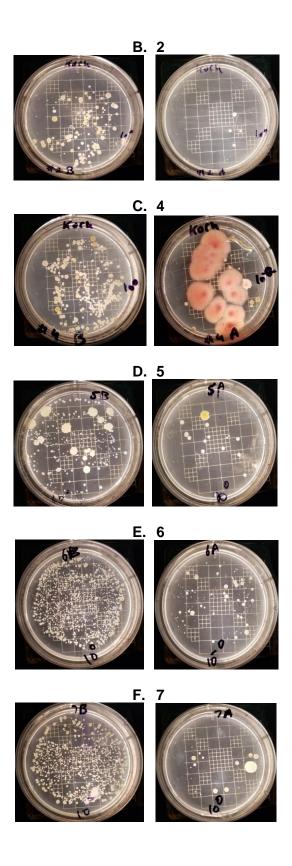
^a APC=Aerobic Plate Count-Growth on Standard Methods Agar ^bGrowth on CHROM Agar

Table 2. Average Reduction in APC and Coliform Bacteria on Egg Shells after treatment with SaniDate Sanitizing Wipes

	Average		
Designation	APC /Swab	Coliforms /Swab	
Before Treatment	990,450	255,000	
After Treatment	59,400	0	
% Reduction	94.00%	100%	

Figure 1. Total Aerobic Bacteria from swabs collected before and after SaniDate RTU Wipes treatment





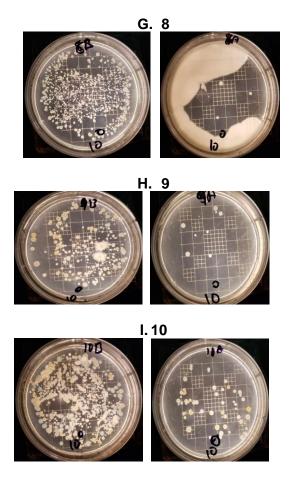
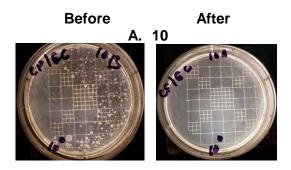


Figure 2. Total Coliforms from swabs collected before and after **SaniDate RTU Wipes treatment**



Report Prepared By:

Vijay Kumar Choppakatla, Ph.D Plant Pathologist

Bi⇔Safe Systems... 22 Meadow Street, East Hartford, CT 06108 Phone 860.290.8890 ext. 221 | Toll Free 888.273.3088 Fax 860.290.8802 | Web biosafesystems.com