
**Wisconsin State Laboratory of Hygiene
University of Wisconsin**Phone: (608) 224-6268
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November 30, 2007

Walter Hawkins
Teal Technologies, Inc.
1910 23rd Avenue
Rockford, IL 61104

Dear Mr. Hawkins,

TEAL-SORB_{SR} Disinfecting Absorbent was tested per the standard operating procedures of the Sanitizer Certification Program using the Association of Official Analytical Chemists method *Germicidal and Detergent Sanitizers (6) Official Final Action (4.023)*. This procedure requires the product to reduce a population of *E. coli* bacteria containing between 75,000,000 and 125,000,000 colony forming units (cfu) by at least 99.999% within 30 seconds of initial contact with the sanitizer. As this method was designed for liquid sanitizers, the procedure was modified for testing TEAL-SORB_{SR} Disinfecting Absorbent.

Recommended application of TEAL-SORB_{SR} is to combine two parts product with one part target waste material (volume / volume). For testing purposes, the target waste material was represented by one ml of *E. coli* culture, and the floor or counter surface containing the waste material was represented by the inside surface of the test tube. The *E. coli* culture used in these trials contained 103,000,000 cfu per ml. In Trial I (see 2007-41), 2 ml (volume) product was added to 1 ml of *E. coli* culture contained in the test tube. The contents were thoroughly mixed using a vortex stirrer. After 30 seconds, the product / waste mixture was analyzed to determine the number of surviving *E. coli*. As the report indicates, no surviving *E. coli* were detected. In Trial II (see 2007-41a) the procedure was repeated except that the amount of product was reduced to 1 ml. Results showed that no surviving *E. coli* were detected. In Trial

III (see 2007-41b) the procedure was repeated except that the amount of product was reduced to 0.5 ml. Results showed that no surviving *E. coli* were detected.

To summarize, the sanitizer certification test is intended to measure the anti-bacterial capabilities of a sanitizer to be marketed in the state of Wisconsin. The minimum performance requires a 99.999% cfu reduction of *E. coli* at initial levels of at least 75,000,000 cfu within 30 seconds of contact with the product. The anti-bacterial quality of TEAL-SORB_{SR} Disinfecting Absorbent exceeded the minimum requirements by achieving 100% reduction of 103,000,000 *E. coli* within 30 seconds, whether applied at full strength (manufacturer's recommendation 2:1), reduced to a 1:1 ratio, or further reduced to a 0.5:1 ratio of product to target waste. The results show that *E. coli* were eliminated both in the target waste material, and on the surfaces containing them.

Thank you for authorizing the Wisconsin State Laboratory of Hygiene to test the Teal Technologies, Inc. product TEAL-SORB_{SR} Disinfecting Absorbent.

Sincerely,

Archie Degnan
Senior Microbiologist

October 22, 2007

Sanitizer:	TEAL-SORB _{SR} DISINFECTING ABSORBENT	DHFS # N/A
Sample Number:	2007 – 41b	
Collector:	Archie Degnan	
Producer:	Teal Technologies	
Contact:	Walter Hawkins	
Test Conc.:	1/2 part product (volume) to one part liquid culture <i>E. coli</i>	

**Germicidal and Detergent Sanitizer Test (AOAC 4.001- 4.028)
with *Escherichia coli* (ATCC #11229)**

Contact time (seconds)	Trial I (surviving <i>E. coli</i> cells)	Percent Reduction	Trial II (surviving <i>E. coli</i> cells)	Percent Reduction
30	0	100	0	100
60	0	100	0	100
<i>E. coli</i> count per volume inoculum		10.3 x 10 ⁷ <i>E. coli</i> per one ml of inoculum		

October 22, 2007

Sanitizer:	TEAL-SORB _{SR} DISINFECTING ABSORBENT	DHFS # N/A
Sample Number:	2007 – 41	
Collector:	Archie Degnan	
Producer:	Teal Technologies	
Contact:	Walter Hawkins	
Test Conc.:	2 parts product (volume) to one part liquid culture <i>E. coli</i>	

**Germicidal and Detergent Sanitizer Test (AOAC 4.001- 4.028)
with *Escherichia coli* (ATCC #11229)**

Contact time (seconds)	Trial I (surviving <i>E. coli</i> cells)	Percent Reduction	Trial II (surviving <i>E. coli</i> cells)	Percent Reduction
30	0	100	0	100
60	0	100	0	100
<i>E. coli</i> count per volume inoculum		10.3 x 10 ⁷ <i>E. coli</i> per one ml of inoculum		