

**Selenastrum capricornutum 96-hr Growth Bioassay**

Client: In-House  
 Test Material: Dawn Dish Soap, Scrubbing Bubbles  
 Test ID#: 26, JTB, AB-001 Project #: Selen-001

Test Date: 4-7-14  
 Control/Diluent: Tap Water  
 Control Water Batch: 1

24 Hour Selenastrum capricornutum Growth						
Test Treatment	Algal Cell Density (cells/mL x 10 <sup>6</sup> )				Mean Cell Density (cells/mL x 10 <sup>6</sup> )	
	Rep. A	Rep. B	Rep. C	Rep. D		
Control	98.9	102.6	100.5	—	100.7	
Scrub. Bubbles	98.3	98.5	97.4	—	98.1	
Dawn Dish Soaps	94.6	99.4	100.8	—	99.9	

  

Treatment (ppm)	Temp	pH		D.O.		Conductivity (µS/cm)	Sign-Off
		Old	New	Old	New		
Control	23.5°C		8.75		6.7	381	Date: 4-9-14
Scrub-B.	23.5°C		8.62		6.9	436	Test Solution Prep: AB
Dawn	23.5°C		8.78		7.23	494	Comments:

48 Hour Selenastrum capricornutum Growth						
Test Treatment	Algal Cell Density (cells/mL x 10 <sup>6</sup> )				Mean Cell Density (cells/mL x 10 <sup>6</sup> )	
	Rep. A	Rep. B	Rep. C	Rep. D		
Control	103.9	104.2	98.1	—	102.1	
Scrub Bubbles	100.4	99.6	99.1	—	99.7	
Dawn Dish Soap	102.6	103.2	103.3	—	103.03	

  

Treatment (ppm)	Temp	pH		D.O.		Conductivity (µS/cm)	Sign-Off
		Old	New	Old	New		
Control	23.5°C	8.78		8.3		281	Date: 4-10-14
Scrub B.	23.5°C	8.27		5.16		424	Water Quality: AB
Dawn	23.5°C	8.64		6.13		464	Comments:

96 Hour Selenastrum capricornutum Growth						
Test Treatment	Algal Cell Density (cells/mL x 10 <sup>6</sup> )				Mean Cell Density (cells/mL x 10 <sup>6</sup> )	
	Rep. A	Rep. B	Rep. C	Rep. D		
Control	99.4	103.2	101	—	101.2	
Scrub Bubbles	99.3	100.4	99	—	99.6	
Dawn Dish Soap	100.4	101.4	100.8	—	100.9	

  

Treatment (ppm)	Temp	pH		D.O.		Conductivity (µS/cm)	Sign-Off
		Old	New	Old	New		
Control	23.5°C	8.78		6.75		380	Date: 4-11-14
Scrub B	23.5°C	8.21		5.17		429	Test Termination: AB
Dawn	23.5°C	8.14		4.90		480	Comments: