

STUDY TITLE

Bacterial Efficacy of Disinfectant

PRODUCT IDENTITY

Westquat
Lot: 605055

AUTHOR

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STUDY COMPLETION DATE

September 20, 2006

PERFORMING LABORATORY

Laboratoire M2 Inc.
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SPONSOR

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This study was not performed under Health Canada official method, the results need to be use only for research and development protocol.

STUDY DATES

Sample Received date: September 7, 2006
 Study Initiation date: September 8, 2006
 Experimental Start Date: September 12, 2006
 Experimental End Date: September 19, 2006
 Study Completion Date: September 20, 2006

EXPERIMENTAL DESIGN

Different bacteria at a concentration of 10^8 cfu/mL was exposed to different dilution of the test substance for different exposure time. Following the exposure time, 0,1% of mix was transfer in a appropriate growth broth media. The result are read after incubation of 48 hours at 37°C.

TEST INFORMATION

TEST PARAMETERS		
Test date : 14 September 2006		
Disinfectant :	Identification	Use Dilution
Lot : 605055	Westquat	0.4%, 0.8%, 1.2%, 1.6%
Contact Time : 1, 5, 10, 15 minutes.	Temperature : 23°C.	
Other Parameters : Test carried out in triplicate.		

TEST BACTERIA INFORMATION		
Bacteria tested :	Identification :	Testing concentration :
<i>Listeria monocytogenes</i>	ATCC 19115	10^8 CFU/mL
<i>Salmonella choleraesuis</i>	ATCC 10708	10^8 CFU/mL
<i>Pseudomonas aeruginosa</i>	ATCC 15442	10^8 CFU/mL
<i>Staphylococcus aureus</i>	ATCC 6538	10^8 CFU/mL
<i>Escherichia coli</i>	ATCC 25912	10^8 CFU/mL

MEDIA INFORMATION	
Name :	Lot :
Tryptic Soy Broth (TSB)	FD060912-1
Water ¹ (Laboratoire M2, Sherbrooke aqueduct)	Hardness (CaCO₃): 80 ppm
	pH: 7,9

¹: sterilize by filtration (0,22µM)

CONCLUSION

Under certain test conditions (time expose and use dilution), Westquat (Lot: 605055) demonstrated complete inactivation of all bacteria used in this study.

STUDY RESULTS¹

Test Bacteria : <i>Listeria monocytogenes</i>												
Contact time	Dilution Use (v/v)											
	0,4%			0,8%			1,2%			1,6%		
1 min.	0	0	0	0	0	0	0	0	0	0	0	0
5 min.	0	0	0	0	0	0	0	0	0	0	0	0
10 min.	0	0	0	0	0	0	0	0	0	0	0	0
15 min.	0	0	0	0	0	0	0	0	0	0	0	0
Control (+)²	+	+	+	Control (-)³			-	-	-			

Test Bacteria : <i>Salmonella choleraesuis</i>												
Contact time	Dilution Use (v/v)											
	0,4%			0,8%			1,2%			1,6%		
1 min.	+	+	+	0	0	0	0	0	0	0	0	0
5 min.	0	0	0	0	0	0	0	0	0	0	0	0
10 min.	0	0	0	0	0	0	0	0	0	0	0	0
15 min.	0	0	0	0	0	0	0	0	0	0	0	0
Control (+)²	+	+	+	Control (-)³			-	-	-			

Test Bacteria : <i>Pseudomonas aeruginosa</i>												
Contact time	Dilution Use (v/v)											
	0,4%			0,8%			1,2%			1,6%		
1 min.	+	+	+	+	+	+	0	+	0	0	0	0
5 min.	+	+	+	0	0	+	0	0	0	0	0	0
10 min.	+	+	+	0	0	0	0	0	0	0	0	0
15 min.	+	+	+	0	0	0	0	0	0	0	0	0
Control (+)²	+	+	+	Control (-)³			-	-	-			

¹ : “+” test with Growth or “0” test without Growth after 48 hrs culture at 37°C; ² : Control (+) : water and bacteria without disinfectant, 15 min.; ³ : Control (-) : disinfectant products (1,6%) in water without bacteria, 15 min.; * : Identification confirmation.

STUDY RESULTS¹

Test Bacteria : <i>Staphylococcus aureus</i>												
Contact time	Dilution Use (v/v)											
	0,4%			0,8%			1,2%			1,6%		
1 min.	0	0	0	0	0	0	0	0	0	0	0	0
5 min.	0	0	0	0	0	0	0	0	0	0	0	0
10 min.	0	0	0	0	0	0	0	0	0	0	0	0
15 min.	0	0	0	0	0	0	0	0	0	0	0	0
Control (+)²	+	+	+*	Control (-)³			-	-	-			

Test Bacteria : <i>Escherichia coli</i>												
Contact time	Dilution Use (v/v)											
	0,4%			0,8%			1,2%			1,6%		
1 min.	+	+*	+	+*	+	0	0	0	0	0	0	0
5 min.	+*	0	0	0	0	0	0	0	0	0	0	0
10 min.	0	0	0	0	0	0	0	0	0	0	0	0
15 min.	0	0	0	0	0	0	0	0	0	0	0	0
Control (+)²	+	+	+	Control (-)³			-	-	-			

¹: "+" test with Growth or "0" test without Growth after 48 hrs culture at 37°C; ²: Control (+): water and bacteria without disinfectant, 15 min.; ³: Control (-): disinfectant products (1,6%) in water without bacteria, 15min.; *:Confirmation of Identification.

PREPARED BY:

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 Date