Time Kill Study for Silver-Sept™ Antimicrobial Skin and Wound Gel

Antimicrobial Activity

Time Kill Studies: The time kill studies for Silver-Sept[®] Silver Antimicrobial Skin and Wound Gel, were conducted in the presence of an interfering substance that simulates the organic load conditions of the wound environment and is known to inhibit the action of antimicrobial agents.

Test Organisms:	rganisms: Table 1 – Antimicrobial Activity							
Bacteria:	INITIAL							
	ORGANISM (COUNT	EXPOSURE TIME / % KILL					
		1 hour	2 hours	1 day				
Escherichia coli	107	99.99985%	100 %	100 %				
Staphylococcus aureus	107	99.77%	100 %	100 %				
Methicillin Resistant Staphylococcus aureus (MRSA	107	98.32%	100 %	100 %				
Vancomycin Resistant Enterococcus faecalis (VRE)	107	98.27%	100 %	100 %				
Pseudomonas aeruginosa	107	99.9996%	100 %	100 %				
Proteus mirabilis	107	99.9998 %	100 %	100 %				
Serratia marcescens	107	99.9538%	100 %	100 %				
Fungi:								
Candida albicans	106	99.1 %	99.9 %	100 %				
Aspergillus niger	106	99.99 %	99.9999 %	100 %				

Time Kill Studies: The time kill studies for Silver-Sept™ Silver Antimicrobial Skin and Wound Gel, were conducted by inoculating high level of test organisms, repeatedly for three consecutive days.

Test Organisms:			Table	2 – Repeate	ed Exposure	Time Kill Study	,		
Bacteria:	EXPOSURE TIME / % KILL								
				2nd day			4 days after 3rd		
		1 day after	2nd	1 day after	3rd	3rd day, 1 day	inoculation, and		
	initial test	initial	inoculation	2nd	inoculation	after 3rd	1 week after initial		
	inoculum	inoculation of	after day 1	inoculation	after day 2	inoculation	inoculation		
Escherichia coli	10 ⁷	100 %	107	100 %	107	100 %	100 %		
Staphylococcus aureus	107	100 %	107	100 %	107	100 %	100 %		
Methicillin Resistant Staphylococcus									
aureus (MRSA)	10 ⁷	100 %	107	100 %	107	100 %	100 %		
Pseudomonas aeruginosa	107	100 %	107	100 %	107	100 %	100 %		
Serratia marcescens	107	100 %	107	100 %	107	100 %	100%		
Fungi:									
Candida albicans	106	100 %	106	100 %	106	100 %	100%		
Aspergillus niger	106	98.667 %	106	98.333%	106	99.5%	100%		