

Silvaplex® Laboratory Testing

DATE	LABORATORY	BACTERIA	TEST METHOD	KILL RATE/RESULT	LOG REDUCTION	RESIDUAL
10/20/06	Northeast Labs	Gram- <i>E. coli</i>			5.7	> 24 hrs.
07/25/07	Universal Labs	<i>MRSA</i>	AOAC 955.11	< 1 min.		
11/24/07	Northeast Labs	<i>MRSA</i>			5.0	> 24 hrs.
11/24/07	Northeast Labs	<i>S. enteriditis</i>			4.9	> 24 hrs.
11/24/07	Northeast Labs	<i>S. aureus</i>			4.9	> 24 hrs.
07/21/07	Universal Labs	<i>MRSA</i>	AOAC 955.11	<1 min.		> 150 mins.
11/30/07	Northeast Labs	<i>MRSA</i>	AOAC 960.09			
11/30/07	Universal Labs	<i>MRSA</i>	AOAC 955.11	< 5 min. 100%		> 150 mins.
11/30/07	Universal Labs	<i>P. aeruginosa</i>	AOAC 955.11	< 5 min. 100%		>150 mins.
11/30/07	Universal Labs	<i>K. pneumoniae</i>	AOAC 955.11	< 3 min. 100%		> 60 mins.
11/30/07	Universal Labs	<i>S. marcescens</i>	AOAC 955.11	< 3 min. 100%		>60 mins.
11/30/07	Universal Labs	<i>E. coli</i>	AOAC 955.11	< 3 min. 100%		>90 mins.
01/22/10	C. G. Laboratories	<i>A. niger</i>	ASTM E1428	120 hrs. > 99.2%*		
01/22/10	C. G. Laboratories	<i>P. aeruginosa</i>	ASTM E2149	32 hrs. > 99.99%*		
01/22/10	C. G. Laboratories	<i>S. aureus</i>	ASTM E2149	32 hrs. > 94.1%*		
01/22/10	C. G. Laboratories	<i>E. coli</i>	ASTM E2149	32 hrs. > 99.999%*		
01/22/10	C. G. Laboratories	<i>C. albicans</i>	ASTM E1428	120 hrs. > 80.1%*		
02/23/10	Cancer Cell Study		Custom Study	100% Cancer kill		
02/27/12	Universal Labs	<i>MRSA</i>	AOAC 955.11	< 2 min. 100%		
07/20/12	Universal Labs	<i>MRSA</i>	AOAC 955.11			>24 hrs.
07/29/10	Southern Research		Custom Study	36 day Pass**		
10/13/12	EMSL Analytical	<i>P. aeruginosa</i>	ASTM E2180	24 hrs. 97%***		
10/13/12	EMSL Analytical	<i>S. aureus</i>	ASTM E2180	24 hrs. 69%***		
11/07/13	Limited Clinical		Wound Healing	Superior Healing		6 months
09/25/14	Universal Labs	<i>MRSA</i>	AOAC 955.11	< 2 min. 100%		
01/28/15	CPTC Labs	<i>S. aureus</i>	GLP USP 51		5.8	28 days
01/28/15	CPTC Labs	<i>E. coli</i>	GLP USP 51		6.1	28 days
01/28/15	CPTC Labs	<i>C. albicans</i>	GLP USP 51		5.1	28 days

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01/28/15	CPTC Labs	<i>P. aeruginosa</i>	GLP USP 51		6.0	28 days
01/28/15	CPTC Labs	<i>A. brasiliensis</i>	GLP USP 51		5.7	28 days
02/24/15	CPTC Labs	Sensitization Rte	ISO 10993-10 GLP		PASS	
02/24/15	CPTC Labs	Dermal Route	ISO 10993-10 GLP		PASS	
11/03/16	Limited Clinical		Wound Healing 5 cases	Superior healing		90 days
03/22/17	CPTC Labs	<i>S. aureus</i>	GLP USP 61		PASS	36 months
03/22/17	CPTC Labs	<i>E. coli</i>	GLP USP 61		PASS	36 months
03/22/17	CPTC Labs	<i>C. albicans</i>	GLP USP 61		PASS	36 months
03/22/17	CPTC Labs	<i>P. aeruginosa</i>	GLP USP 61		PASS	36 months
03/22/17	CPTC Labs	<i>A. brasiliensis</i>	GLP USP 61		PASS	36 months
03/23/17	CPTC Labs	<i>S. aureus</i>	GLP USP 51		6.1	36 months
03/23/17	CPTC Labs	<i>E. coli</i>	GLP USP 51		6.0	36 months
03/23/17	CPTC Labs	<i>C. albicans</i>	GLP USP 51		5.8	36 months
03/23/17	CPTC Labs	<i>P. aeruginosa</i>	GLP USP 51		5.8	36 months
03/23/17	CPTC Labs	<i>A. brasiliensis</i>	GLP USP 51		5.7	36 months
05/24/17	Polymer Solutions		NMR	Chit-Ag spectrum		
03/22/18	Sinclair Research		Wound Healing		Outperformed SilvaSorb	10 days
04/09/19	EMSL Analytical		DLS method	Particle size 191 nm		
07/24/19	Emery Pharma	<i>P. aeruginosa</i>	MBEC		Outperformed SilvaSorb	
07/24/19	Emery Pharma	<i>S. aureus</i>	MBEC		Outperformed SilvaSorb	
07/24/19	Emery Pharma		MTS Cytotoxicity	Not Cytotoxic	Outperformed SilvaSorb	

*Epoxy paint infused with Chitosan-Ag ** Toxicity cancer study in mice ***Chitosan-Ag embedded in Elvax copolymer