



# Laboratory Tests of *Ionic~Colloidal Silver* Made Using the Silver Pulser

## *The Ionic~Colloidal Silver Is Still Potent ... 2 Years and Counting!*

### Summary:

Our Goal: to determine how long, when properly stored in dark brown glass bottles, the Ionic~Colloidal Silver (ICS) will retain its effectiveness.

A series of tests done by NOVA Biologicals used industry testing standards to determine if the Ionic~Colloidal Silver electrolyte made with the SOTA Silver Pulser is an effective anti-bacterial when applied to three virulent pathogens:

- **Escherichia coli (E-coli)**
- **Pseudomonas aeruginosa**
- **Streptococcus pyogenes**

### Results of 2 Years of Testing:

The ICS electrolyte created by the SOTA Silver Pulser killed all three virulent pathogens at both zero and 30 seconds.

We originally only made enough Ionic~Colloidal Silver to test for 2 years, not expecting such great results. In order to test at a 3-year mark we made an additional batch of Ionic~Colloidal Silver on July 26, 2018. This batch will be tested for strength at the 3-year mark - July 26, 2021.

We sent a large batch of Ionic~Colloidal Silver to Nova Biologicals to test for effectiveness at the 0 month; 3 month; 6 month; 9 month; 12 month; 18 month and 24 month marks. The results for these tests were basically the same.

The results of 0, 12 and 24 months are as follows:



**October 19, 2017**

NOVA Biologicals: Month 0

Strength of the ICS electrolyte: Independent Lab testing = 9.14 ppm

**Escherichia coli** 1.5 x 10<sup>9</sup> CFU

Sample ID	Contact Time	Final Concentration	% Reduction
SOTA Ionic~Colloidal Silver Collected 10/19/17 - Month 0	Zero minutes	9.0 x 10 <sup>6</sup>	99.40%
	30 seconds	5.4 x 10 <sup>6</sup>	99.64%

Neutralization Test: **PASS**

**Pseudomonas aeruginosa** 1.9 x 10<sup>9</sup> CFU

Sample ID	Contact Time	Final Concentration	% Reduction
SOTA Ionic~Colloidal Silver Collected 10/19/17 - Month 0	Zero minutes	1.19 x 10 <sup>8</sup>	93.74%
	30 seconds	4.20 x 10 <sup>6</sup>	97.79%

Neutralization Test: **PASS**

**Streptococcus pyogenes** 1.9 x 10<sup>9</sup> CFU

Sample ID	Contact Time	Final Concentration	% Reduction
SOTA Ionic~Colloidal Silver Collected 10/19/17 - Month 0	Zero minutes	6.7 x 10 <sup>6</sup>	99.65%
	30 seconds	6.1 x 10 <sup>6</sup>	99.68%

Neutralization Test: **PASS**

*Test Results October 2017*



**October 18, 2018**

NOVA Biologicals: 12 month mark

Strength of the ICS electrolyte: Independent Lab testing = 8.59 ppm

**Escherichia coli** 1.74 x 10<sup>6</sup> CFU

Sample ID	Contact Time	Final Concentration	% Reduction
SOTA Ionic~Colloidal Silver - 12 month Collected 10/18/18	Zero minutes	<1	99.99%
	30 seconds	<1	99.99%

Neutralization Test: **PASS**

**Pseudomonas aeruginosa** 3.4 x 10<sup>6</sup> CFU

Sample ID	Contact Time	Final Concentration	% Reduction
SOTA Ionic~Colloidal Silver - 12 month Collected 10/18/18	Zero minutes	<1	99.99%
	30 seconds	<1	99.99%

Neutralization Test: **PASS**

**Streptococcus pyogenes** 2.96 x 10<sup>6</sup> CFU

Sample ID	Contact Time	Final Concentration	% Reduction
SOTA Ionic~Colloidal Silver - 12 month Collected 10/18/18	Zero minutes	<1	99.99%
	30 seconds	<1	99.99%

Neutralization Test: **PASS**

*Test Results October 2018*



**October 17, 2019**

NOVA Biologicals: 24 month mark

Strength of the ICS electrolyte: Independent Lab testing = 10.4 ppm

**Escherichia coli**  $6.0 \times 10^6$  CFU

Sample ID	Contact Time	Final Concentration	% Reduction
SOTA Ionic~Colloidal Silver - 24 month Collected 10/17/19	Zero minutes	<1	99.99%
	30 seconds	<1	99.99%

Neutralization Test: **PASS**

**Pseudomonas aeruginosa**  $5.0 \times 10^5$  CFU

Sample ID	Contact Time	Final Concentration	% Reduction
SOTA Ionic~Colloidal Silver - 24 month Collected 10/17/19	Zero minutes	<1	99.99%
	30 seconds	<1	99.99%

Neutralization Test: **PASS**

**Streptococcus pyogenes**  $1.6 \times 10^7$  CFU

Sample ID	Contact Time	Final Concentration	% Reduction
SOTA Ionic~Colloidal Silver - 24 month Collected 10/17/19	Zero minutes	<1	99.99%
	30 seconds	<1	99.99%

Neutralization Test: **PASS**

*Test Results October 2019*

• The SOTA units are consumer products designed to be used as part of a Wellness Lifestyle • The SOTA units are not medical devices nor are they intended to diagnose, treat or cure any medical or health condition • The use, safety or effectiveness of the SOTA units has not been approved by any government agency • Please consult a health practitioner for any medical or health condition • Results using the SOTA Products will vary for each person • Please note that all purchases of SOTA Products are deemed to be made in Penticton, BC, Canada •