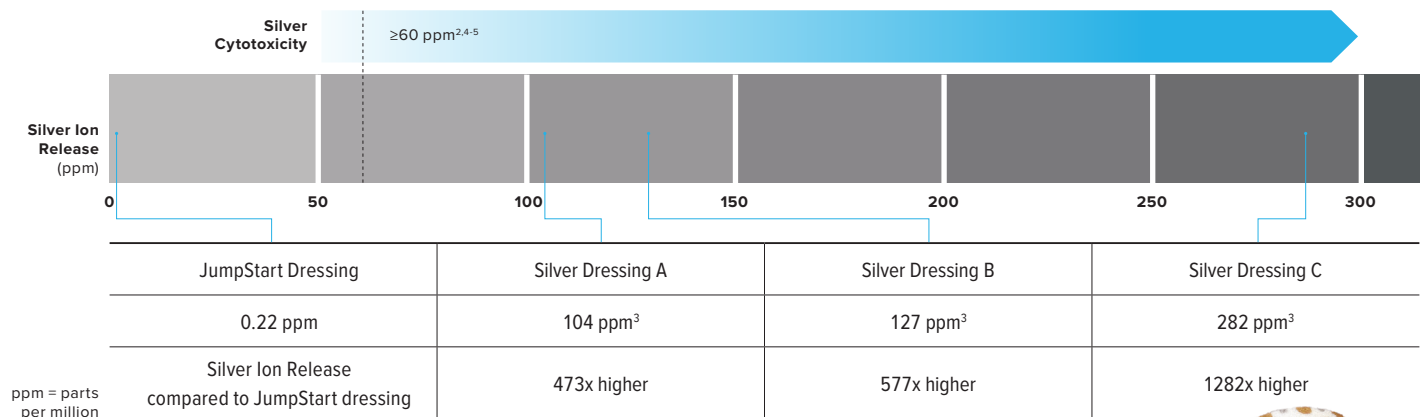


Silver Dressings

Addressing Concerns About High-Volume Silver Ion Release

<p>Mechanism of action relies on silver ion release¹⁻⁴</p>	<p>Silver is recognized as cytotoxic to keratinocytes and fibroblast¹⁻⁴</p>	<p>There are growing concerns over bacterial resistance to silver^{5,6}</p>	<p>Low concentrations of silver ions are not suitable for treatment of biofilm⁶</p>	<p>Silver can cause skin discoloration^{1,2}</p>
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Bactericidal Activity vs Silver Toxicity



	JumpStart Antimicrobial Wound Dressings	Silver Antimicrobial Wound Dressings
Antimicrobial		
Addresses biofilm in vitro		
Addresses biofilm in vivo		
Supports cell migration and re-epithelialization		

^{*}Preclinical
^{**} Only one silver dressing currently claims antibiofilm impact. In addition to silver, this product also contains benzethonium chloride (BEC), a surfactant, and ethylenediaminetetraacetic acid disodium salt (EDTA), a metal chelating agent.

References
 1. Parsons D, Bowler P, Myles V, Jones S. Silver antimicrobial dressings in wound management: a comparison of antibacterial, physical, and chemical characteristics. *Wounds*. 2005; 17(8):222-232. 2. Lansdown AB. A pharmacological and toxicological profile of silver as an antimicrobial agent in medical devices. *Adv Pharmacol Sci*. 2010;2010:910686. doi:10.1155/2010/910686 3. Mondal R, Foote M, Canada A, Wienczek M, Cowan ME, Acevedo C. Efficient silver release from ion exchange silver dressings in biologically relevant media. *Wounds*. 2020;32(1):22-29. 4. Khansa I, Schoenbrunner AR, Kraft CT, Janis JE. Silver in wound care—friend or foe?: a comprehensive review. *Plast Reconstr Surg Glob Open*. 2019;7(8):e2390. doi:10.1097/GOX.00000000000002390 5. Lansdown AB, Williams A. Bacterial resistance to silver in wound care and medical devices. *J Wound Care*. 2007;16(1):15-19. doi:10.12968/jowc.2007.16.1.26983 6. Percival SL, Salisbury AM, Chen R. Silver, biofilms and wounds: resistance revisited. *Crit Rev Microbiol*. 2019;45(2):223-237. doi:10.1080/1040841X.2019.1573803

JumpStart Antimicrobial Wound Dressing Powered by V.Dox™ Technology

- **MINIMAL SILVER.** JumpStart products deliver an unparalleled impact without high-volume silver release.
- **NO ADDED CHEMICALS.** JumpStart dressing achieves its antimicrobial impact without the need for added surfactants or chelating agents.
- **ONLY JUMPSTART DRESSING** uses the power of electricity to mimic skin's physiologic electrical energy, providing a combination of benefits that no silver dressing can claim.