

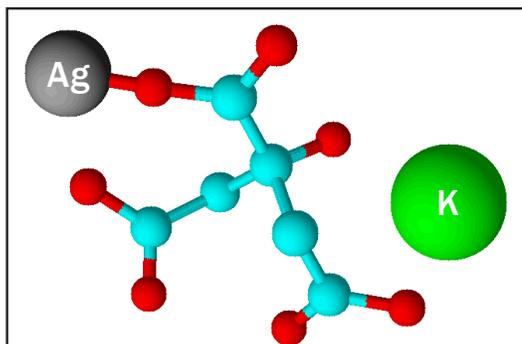
100 ppm
SILVER
100™

IONIC SILVER COMPLEX

WITH



Optimized Delivery System



The Opti-Silver complex

Element	Color
Silver	Silver (Ag)
Citrate ⁴⁻	Cyan and magenta
Potassium ²⁺	Green (K)

- 1 Cyan (or blue) shows carbon. Magenta (or red) shows oxygen. As is typical, the hydrogen is not shown.
- 2 Potassium acts as the counter-ion in the solution and is dissociated from the silver citrate.

The key to gaining the benefits of silver is the controlled release of silver ions in the body, the only bioactive form of silver. To achieve this, silver ions must be stabilized, transported into the system, and released. Otherwise, they will bind up with substances in the system such as chlorides and become neutralized.

Colloidal* silver and other forms of silver, whether called ionic, nanosilver, etc, often work quite well yet they still provide only a fraction of the potential. Only a small portion of the silver in colloidal silver is ionic (in the form of "silver oxide") and only a small portion of that is released in the body before it's excreted. Opti-Silver™ unleashes the real potential of silver. It is hundreds of times more efficient. Virtually all of the silver is bioactive silver ions, delivered through controlled release.

THE QUANTUM LEAP IN EFFICIENTLY DELIVERING SILVER IONS TO THE BODY
CONTROLLED RELEASE FOR OPTIMAL BIOAVAILABILITY

- **Optimized delivery:** Opti-Silver™ is the essential key that provides the all-important *carrying and controlled releasing* of silver ions to the body, in a water-soluble silver citrate complex
- **Complex in solution has no particles:** Delivers silver ions less than 0.3 nanometer in size, literally the size of individual silver atoms — in fact, it consists of molecules in solution in water (and in the blood) and *it has no particles at all*
- **Economical 100-ppm formula:** One bottle contains as much silver as *ten bottles* of 10-ppm silver, so you pay far less per mcg, and the efficient delivery means you can use far fewer mcg — you use just 1 drop per 10 lbs or 1 spray per 30 lbs of body weight
- **100% safe:** When used as directed, you actually consume *less* silver than you may already be consuming with your ordinary *daily drinking water* — but delivered as powerful bioactive ions

Water-soluble silver citrate complex
 with potassium as counter-ion
 for optimal bioavailability

UNLEASH THE REAL POTENTIAL OF SILVER

Real chemistry. Real performance.

- The chemical formula of Opti-Silver™ is:



where C₆H₅O₇ represents citrate, and where K represents potassium as the counter-ion

- The equilibrium equation of Opti-Silver™ is:



where Cit represents citrate (noting that K⁺ as potassium is the dissociated counter-ion, which is typically not shown)

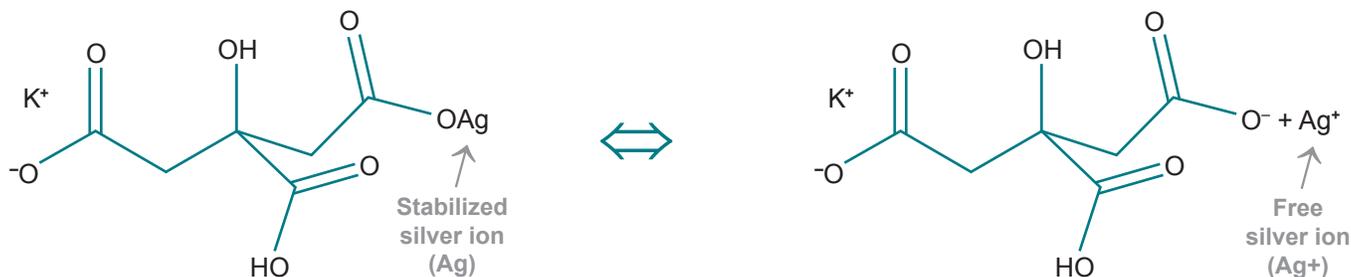
By providing the optimal dissociation constant, Opti-Silver™ keeps silver citrate in a highly stabilized complex in solution in water — see the left side of the equilibrium equation above...

...and slowly releases more and more of its silver as free silver ions (Ag⁺) upon exposure to the body's chemistry — see the right side of the equilibrium equation above.

* Colloidal silver functions by delivering silver ions to the body. Silver 100™ with Opti-Silver™ does this in a far more efficient manner.

Opti-Silver™

is represented by the following **equilibrium equation** and formulas:



Silver citrate complex
with potassium as the counter-ion

$C_6H_6O_7Ag$
where $C_6H_6O_7$ represents citrate

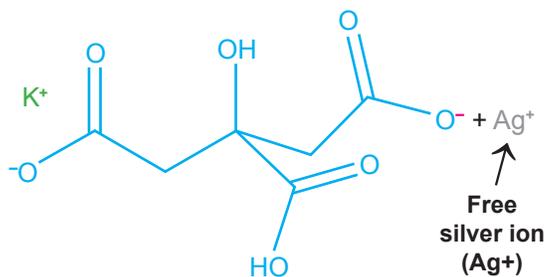
is in equilibrium with

citrate and free silver ion
with potassium as the counter-ion

$C_6H_6O_7 + Ag^+$
where $C_6H_6O_7$ represents citrate

The illustration to the right of the equilibrium symbol in the equation above represents Opti-Silver™ once it has released its silver as free silver ion. This is shown in greater detail in the illustration to the right.

While in the bottle, Opti-Silver™ keeps the vast majority of its silver in a stable, complexed state (left side of the equilibrium equation) with only a very small portion available as free silver ion. Upon exposure to the body's chemistry, Opti-Silver™ gradually releases its silver as free silver ions (right side of the equilibrium equation).



Silver is dissociated from the molecule (see the **minus sign** at the right side of the molecule) and becomes **free silver ion**, now freely available to the body and no longer attached to the **citrate**.