



Get the Scientific Facts

The 3 S's: Safety, Strength and Stability

1

SAFETY (and Absorption) Silver Particle Size

According to the Encyclopedia of Chemical Technology, a silver colloid particle size must range between 1-100 nanometers. **Silver Wings** silver colloids always range between 1-100 nanometers.

2

STRENGTH Parts Per Million (PPM)

Parts Per Million is the **number (not size)** of silver particles per serving. The greater the number of silver particles per serving yields greater concentration. **Silver Wings** conveniently offers a variety of PPMs (50PPM, 150PPM, 250PPM and 500PPM).

3

STABILITY ZETA Potential

Zeta Potential analyzes the stability of silver particles in suspension. This ranges between 0-61+. **Silver Wings** has high zeta potential (i.e. Lot 9302 Zeta Potential 66), which proves the stability of our colloidal silver.

It is always important to verify a product's testing method, source and request independent 3rd party analysis.

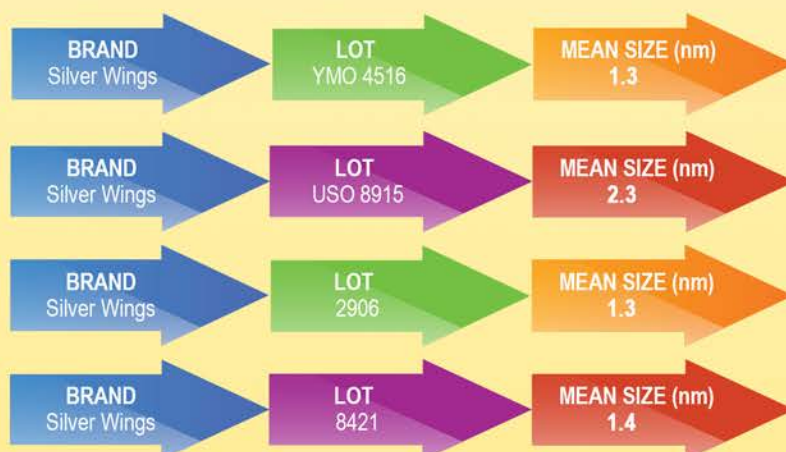


Particle Size Matters

1 Silver Particle Analysis – Safety

Beckman Coulter Delsa Max and DelsaNano Photon Correlation Spectroscopy

Provides measurements of submicron particle size and zeta potential. It has the ability to measure silver particles as small as 0.6 nm, and is unparalleled. **Nano Correlation Spectroscopy is the most accurate method of testing the overall silver particle size. This analysis enables one to view the size of all silver particles.**



These analyses were conducted by FDA registered 3rd party laboratories. **Natural Path / Silver Wings** solely utilizes qualified 3rd party independent laboratories for silver particle size analysis. Upon request, 3rd party results can be provided. **Silver Wings** always ranges in a true colloid size between 1-100 nanometers.

FAQ: Does parts per million have anything to do with silver particle size? **NO**

PPM is the number of silver particles, thus the strength of concentration.

Strength & Stability

2 Parts Per Million – Strength

Parts Per Million (PPM) is the number of silver particles per serving.

Every bottle's PPM is verified within 5% (+/-) as labeled on each bottle in compliance with FDA and GMP standards.

FAQ: Does parts per million have any correlation with color? **YES**



Silver has a translucent amber color



- 💧 The higher the PPM= The darker the amber color
- 💧 1 teaspoon of Silver Wings 250PPM= 25 teaspoons of 10PPM
- 💧 Higher PPM strength offers the convenience of less dosages per day

3 Zeta Potential – Stability

High Zeta Potential = silver particles are stabilized in suspension.

Low Zeta Potential = silver particles tend to coagulate or flocculate i.e. form clumps or masses of larger silver particles. EBATCO Laboratory states, "Particles with lower Zeta Potential have a tendency to collide and form large agglomerations."

Silver Wings Zeta Potential is analyzed by 3rd party independent laboratories with DelsaNano C and Zeta Potential Analyzer instruments.

Independent Analysis for Silver Wings Zeta Potential:



Zeta potential [mV]	Stability behavior of the colloid
From 0 to 5	Rapid coagulation or flocculation
From 10 to 30	Incipient instability
From 30 to 40	Moderate stability
From 40 to 60	Good stability
More than 61	Excellent stability

Source: Wikipedia.org