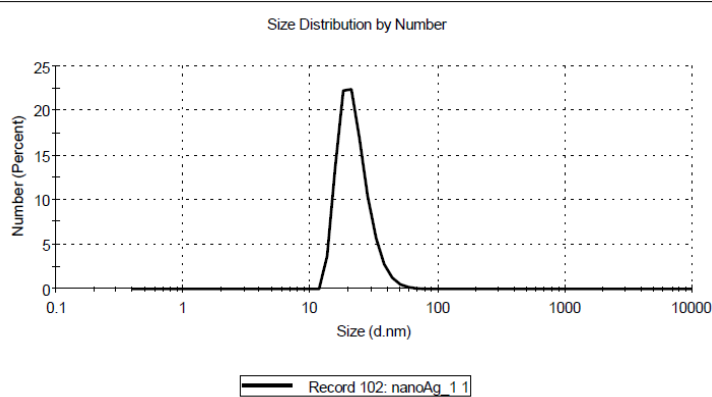
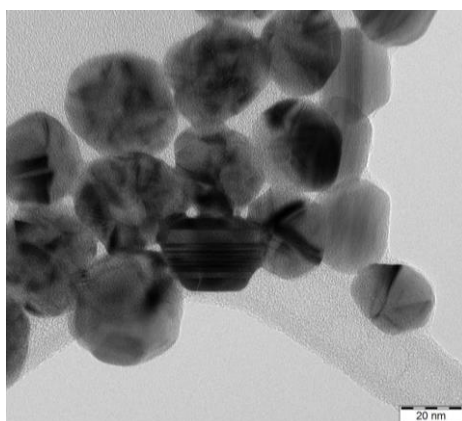


TECHNICAL DATA SHEET

SECTION I IDENTIFICATION OF THE SUBSTANCE / MANUFACTURER IDENTIFICATION

Product name: Colloidal silver 100 ppm (dispersion of elemental silver particles)

Chemical composition of the product	Ag(0)
Content of solid phase in dispersion by weight	100 ppm
Other ingredients in liquid phase	water, organic stabilizer (food grade)
Valence of the nanoparticles	zero
Particles morphology	spherical
Average particle size	20 - 40 nm
Zeta-potential	-25 mV
pH	9 – 11
pH of dispersion after dilution at concentration 10 ppm	8 – 9
Dispersion colour	yellow-orange to brown



SECTION II PRODUCT APPLICATION

Main application: Antibacterial usage

Other applications: Colloidal silver suitable for permanent removal of mold, bacteria, and fungi from plaster, walls and other surfaces. An intended additive in paints and dyes.

SECTION III PRODUCT PACKAGING

Colloidal silver is distributed for industrial applications in a plastic canisters of product volume of 25 l. Small samples for laboratory experiments are distributed in PET bottles of product volume of 100, 250 and 500 ml.

SECTION IV STORAGE AND HANDLING

Colloidal silver is distributed in form of stable dispersion. We recommend storage in the refrigerator at 2-6 °C. Do not freeze or heat! Process within 6 months from date of manufacture.

Can be diluted with distilled/demineralized water. E.g. mix 10 mL of dispersion and 90 mL of distilled water to achieve a concentration of 10 ppm.