



LABORATORIOS
ARGENOL

MANUFACTURER
OF PRECIOUS
METAL INGREDIENTS

■ SILVER

■ GOLD

■ PLATINUM



Silver is a broad-range antimicrobial agent



All our silver active ingredients are naturally occurring element with a high antimicrobial efficacy, as well as being widely recognized as safe for humans.



WHY SILVER?

Silver is a broad-range antimicrobial agent that has been proven effective against most harmful microorganisms present in everyday life, such as *E. coli*, *P. aeruginosa*, *S. aureus*, *P. acnes*, *A. niger*, *C. albicans*, *M. furfur* among others.

Ionic silver is a multi-site antimicrobial, which is an advantage compared to many organic solutions that only offer one-site functionality. The ionic silver not only disrupt folic acid synthesis, but also protein synthesis, inhibits DNA synthesis, disrupt electron transport and interferes with cell wall synthesis.

Metallic Silver has a broad-spectrum antimicrobial activity as well. It takes more time in the release of silver ions providing longer efficacy.





Silver is a well-known and highly used preservative as well, our technical department developed recently new COSMOS STANDARD and ECOCERT certification for several ingredients.



>> Why Gold?



Gold gives a beautiful, glowing and youthful skin but is also beneficial in many ways. It slows down the collagen depletion, increases skin's elasticity, lightens the skin's complexion, stimulates the cells making the skin firm, improves blood circulation and prevents premature aging, wrinkles and tanning.

Why Platinum?



Colloidal Platinum has been documented as one of the major rejuvenator's of the life force, it works deeply with cellular DNA to create an internal environment necessary for the body in order to reverse degenerative conditions.



Silver additives prevent the growth of bacteria, mold and fungi and other microorganism, making a powerful tool against infections.



Testing of antimicrobial activity







Laboratorios Argenol has an internal state-of-the-art antimicrobial laboratory prepared for:

- Antimicrobial testing
- Antifungal testing

Following typical tests are performed in Laboratorios Argenol laboratory:

- European Pharmacopoeia current edition microbiological tests
- MIC
- Challenge Test
- JIS Z 2801 (ISO 22196:2007) for bacteria
- ISO 846 for fungi

										Applications					
	INCI	pH	Solubility	Appearance	Test	Dose	Functions	Claims	Facial/ Body care	Deodorant	Foot care	Hair Care	Wet wipes	Oral Care	Intimate care
	Silver Citrate Solution	Citric Acid (and) Silver Citrate	2 ± 1	WS	Transparent liquid	MIC, Sniff Test, Challenge test	0,1 - 1%	Antimicrobial Deodorant (EU 866/2014)	Easy to work, best sold and multifunction product. Alternative to triclosan	✓	✓	✓	✓	✓	✓
	Silver Solution - B	Colloidal Silver	2 ± 1	WS	Transparent liquid	MIC Challenge Test	0,1 - 0,5%	Cosmetic Colorant / Deodorant / Skin Conditioning	Colorless colloidal silver	✓	✓	✓	✓	✓	
	Silver Solution - C	Aqua (and) Pentasodium Pentetate (and) Silver	10,0 ± 1	WS	Transparent liquid	MIC Challenge Test	0,4 - 0,75%	Antimicrobial	The basic silver	✓	✓	✓	✓		
	Silver Lactate 2500	Lactic Acid (and) Silver Lactate	5 ± 1	WS	Colourless to yellow liquid	MIC	0,5 - 1%	Deodorant / Skin conditioning	The well-being silver		✓		✓		✓
	Colloidal Silver Solution	Colloidal Silver	6 - 9	WS	Yellow to brown liquid	MIC, Patch Test	0,25 - 1,25%	Antimicrobial	Pharma grade for cosmetics	✓				✓	✓
	Metallic Silver Powder - W	Silver	8 ± 1	Insoluble	Light Grey powder	MIC Cytotoxicity	0,05 - 0,3%	Cosmetic Colorant / Deodorant / Skin Conditioning	White pure silver for the skin	✓	✓	✓		✓	
	Metallic Silver Powder - G	Silver	8 ± 1	Insoluble	Grey powder	MIC, Cytotoxicity Patch Test	0,05 - 0,3%	Cosmetic Colorant / Deodorant / Skin Conditioning	Real pure silver for the skin	✓	✓	✓		✓	
	Silver Chloride on Titanium Dioxide	Silver Chloride (and) Titanium Dioxide	6 ± 1	Insoluble	White powder	MIC	0,04 - 0,2%	Preservative (EC 1223/2009; Annex V)	Sun care preservative		✓	✓			
	Silver Zeolite	Sodium Silver Aluminum Silicate	9 ± 1	Insoluble	White powder	MIC, Sniff Test, Challenge test	0,05 - 1,5%	Absorbent / Deodorant	Mineral antiodour alternative		✓	✓		✓	
	Silver Copper Zeolite	Silver Copper Zeolite	8 ± 1	Insoluble	Light blue powder	MIC, Sniff Test, Patch Test	0,1 - 2%	Absorbent / Deodorant	Blue silver for bar soap		✓	✓	✓		
	Silver Copper Zeolite - 2	Silver Copper Zeolite	8 ± 1	Insoluble	blue powder	MIC, Sniff Test, Patch Test	0,04 - 1,5%	Absorbent / Deodorant	Blue silver for rinse-off		✓	✓			
	Colloidal Gold	Colloidal Gold (and) Caprylyl Glycol (and) Phenoxyethanol	3 - 6	WS	Pink to Red liquid		0,05 - 1,5%	Skin Conditioning	The wellness and luxury of gold	✓					
	Gold Powder	Gold		Insoluble	Micronized Powder		0,01 - 0,1%	Cosmetic Colorant	Pure gold for the skin	✓					
	Colloidal Platinum	Colloidal Platinum	4,0 - 6,5	WS	Brown to black liquid		0,05 - 1,5%	Antimicrobial / Antioxidant / Deodorant	The most expensive precious metal for cosmetics	✓					
	MT Solution	Aqua (and) Citric Acid (and) Zinc Citrate (and) Copper Citrate (and) Silver Citrate (and) Magnesium Citrate (and) Molybdenum Chloride (and) Cobalt Gluconate (and) Manganese Citrate	3 - 6	WS	Transparent bluish liquid		1 - 5%	Antimicrobial / Antiplaque / Deodorant / Hair conditioning / Skin conditioning	New nourishing hair concept				✓		
	Silver Sulfate	Silver Sulfate		Slightly WS	White powder		1%	Antimicrobial	New hair dye concept				✓		

APPLICATIONS

ANTIMICROBIAL
 DEODORANT & FOOT CARE
 ORAL CARE
 HAIR CARE (dandruff)
 SKIN CARE (acne, atopic)
 INTIMATE HYGIENE
 PRESERVATIVE
 WET WIPES



LABORATORIOS ARGENOL

EXPORTING SILVER-BASED PRODUCTS ALL OVER THE WORLD SINCE 1939



LABORATORIOS ARGENOL SALES AREA - **60 COUNTRIES**

About Laboratorios Argenol

Laboratorios Argenol is a traditional company manufacturing since 1939 silver active ingredients for cosmetic, pharma and industrial markets.

Our mission is to create ingredients that maximize the performance of our customers' products through unique, precious and cost sustainable actives.

We see our future in continued growth by developing and launching new products in different fields expanding our team along the two facilities of 22.000 sqm we have in Zaragoza, Spain.

Laboratorios Argenol has GMP certificates for most of the silver active ingredients sold in pharma industry.

Laboratorios Argenol keeps the traditional spirit provided by over 75 years of experience, with the aim of the everyday innovation.



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