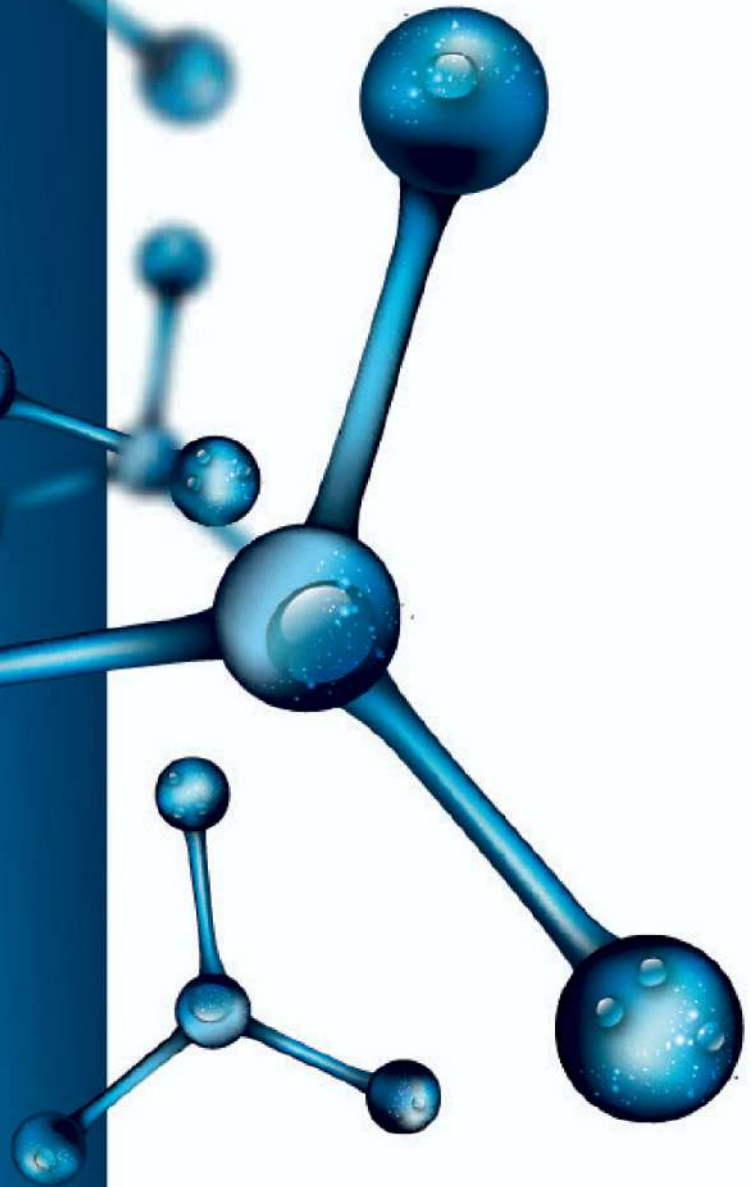




PHARMACY AND HEALTH PRODUCTS

APIs MANUFACTURER SINCE 1939 - GMP



SILVER
(ANTIMICROBIAL)

**TANNIC ACID
DERIVATIVES**
(NATURAL ASTRINGENT)



PRODUCT LIST

APIs MANUFACTURER SINCE 1939 - GMP

SILVER ACTIVE INGREDIENT	CAS No.	CTD	GMP	THERAPEUTIC USE	PHARMACY APPLICATIONS
COLLOIDAL SILVER EP	9007-35-6	v	v	Antimicrobial, Antiseptic, Preservative	Otolaryngology, Ophthalmology
SILVER VITELLINATE	9015-51-4	v	v	Antimicrobial, Antiseptic, Preservative	Otolaryngology, Ophthalmology
SILVER PROTEINATE	9008-42-8	v	v	Antimicrobial, Antiseptic, Preservative	Otolaryngology, Ophthalmology
SILVER PROTEIN ACETYLTANNATE / with BORAX	9008-42-8 / 8002-27-5	v	v	Antimicrobial, Antiseptic, Preservative	Otolaryngology, Ophthalmology
COLLOIDAL SILVER SOLUTION	9007-35-6	v	v	Antimicrobial, Antiseptic, Preservative	Otolaryngology, Ophthalmology
SILVER CITRATE	126-45-4	-	-	Antimicrobial	Wound Care
SILVER CHLORIDE	7783-90-6	-	-	Antimicrobial	Wound Care
SILVER LACTATE SOLUTION	128-00-7	-	-	Antimicrobial, Topical anti-infective, Astringent	Wound Care, Intimate Hygiene
SILVER NITRATE EP	7761-88-8	v	v	Antiseptic, cauterizing or sclerosing agent	Antiseptic, Dermatology, Disinfectant
SILVER SULFATE	10294-26-5	v	v	Antimicrobial	Wound Care, Ophthalmology
SILVER ZEOLITE	130328-18-6	v	v	Antimicrobial	Wound Care, Foot Care
SILVER COPPER ZEOLITE	130328-19-7	v	v	Antimicrobial	Wound Care, Foot Care
METALLIC SILVER POWDER	7440-22-4	v	v	Antimicrobial	Wound Care, Dermatology, Oral care

TANNIC ACID DERIVATES	CAS No.	CTD	GMP	THERAPEUTIC USE	PHARMACY APPLICATIONS
ALBUMIN TANNATE	9006-52-4	v	v	Antidiarrheal, astringent	Gastroenterology
GELATIN TANNATE	-	v	v	Astringent, Antibacterial, Anti-inflammatory, Antidiarrheal	Gastroenterology



SILVER-BASED PRODUCTS



TANNIC ACID DERIVATIVES



SILVER SULPHATE OR SILVER ZEOLITE

Active principles, manufactured according to the Good Manufacturing Practices (GMP), and used as antibacterial agents for the prevention of infections in bandages and wound treatments.

METALLIC SILVER

An active pharmaceutical substance used to prevent infections in treating wounds. It is also used in oral treatments and oral care. It is manufactured according to the Good Manufacturing Practices (GMP).

SILVER COLLOIDS

Colargol, silver proteinate and vitelinate are the main colloids manufactured by Laboratorios Argenol, according to European Pharmacopoeias and according to the Good Manufacturing Practices (GMP).

TANNIC ACID DERIVATIVES: ALBUMIN TANNATE

An active principle manufactured by Argenol Laboratories according to European Pharmacopoeias and according to the Good Manufacturing Practices (GMP). It is used as an astringent and gastrointestinal treatments.

SILVER NITRATE

An active principle offered by Laboratorios Argenol, according to European Pharmacopoeias and according to the Good Manufacturing Practices (GMP).



COSMETICS

■ **SILVER**

■ **GOLD**

■ **PLATINUM**

MANUFACTURER
OF PRECIOUS
METAL INGREDIENTS



**Silver is a
broad-range
antimicrobial
agent**

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.

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

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

	INCI	pH	Solubility	Appearance	Test	Dose	Functions	Claims	Applications							
									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 Pentacate (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	8 - 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	8 ± 1	insoluble	White powder	MIC	0.04 - 0.2%	Preservative (EC 1223/2008, Annex V)	Sun care preservative		●	●				
	Silver Zeolite	Sodium Silver Aluminium Silicate	8 ± 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 - 1.8%	Absorbent / Deodorant	Blue silver for rinse-off		●	●				
	Colloidal Gold	Colloidal Gold (and) Caprylyl Glycol (and) Phenoxethanol	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 - 0.6%	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 Guconate (and) Manganese Citrate	3 - 6	WS	Transparent bluish liquid		1 - 5%	Antimicrobial / Antipileque / Deodorant / Hair conditioning / Skin conditioning	Now nourishing hair concept						●	
	Silver Sulfate	Silver Sulfate		Slightly WS	White powder		1%	Antimicrobial	Now hair dye concept						●	

APPLICATIONS

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



OUR PRODUCTS



Our labs has its own internal microbiology laboratory, where it has developed its own state of the art technique, prepared for:

Antimicrobial test
Antifungal test

Testing specific regulations:

European Pharmacopoeia

MIC

Challenge test (Preservative efficiency)

JIS Z 2801 (ISO 22196:2007) for bacteria

ISO 846 for fungi

SILVER CITRATE SOLUTION

The most versatile ingredient, used in deodorants, gels and shampoos, intimate hygiene, foot care products and wet wipes. It also has COSMOS certification.

SILVER METALLIC

A COSMOS certified active substance that is recommended mainly for creams for atopic-dry-sensitive skin, oral care (toothpaste) and high-end and luxury lines.

SILVER LACTATE SOLUTION

An active ingredient manufactured by Laboratorios Argenol that prevents infections and favours the care of intimate hygiene.

PRESERVATIVES

Silver is considered a natural preservative in cosmetics, it is also COSMOS and Ecocert certified.

DISSOLUTION OF COLLOIDAL GOLD OR COLLOIDAL PLATINUM

Active ingredients manufactured by Laboratorios Argenol used in luxury cosmetics.