

# FACE CARE ANTIMICROBIAL ACTIVE - SKIN CARE

Silver-based ingredients are new and natural alternatives providing care to your skin. Bactericidal silver properties allow having a clean face skin without daily impurities.





### **FINAL PRODUCTS**

- Anti-acne cream and soap.
- · Clarifying and cleansing wipes.
- Antimicrobial gel, lotions and bar soap.
- Mask, cleanser, wash and exfoliating peal gel.
- Daily cream and active treatment serum.
- Atopic cream.

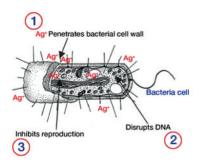
ARGENOL PRODUCTS					
NAME	INCI	%Ag	DOSAGE RANGE	CERTIFICATION	
METALIC SILVER POWDER G/W	Silver	> 99%	0,1 - 0,3%	COSMOS ECCERT APPROVED ECCERT MAY MATERIAL	
SILVER CITRATE SOLUTION	Citric Acid (and) Silver Citrate	0,25%	0,2 - 1%	COSMOS ECCERT APPROVED ECCERT MATERIAL	
SILVER SOLUTION - B	Colloidal Silver	0,25%	0,2 - 1%	Approved by ECOCERT BAW MATERIAL	
SILVER SOLUTION - C	Pentasodium Pentetate (and) Silver	0,05%	0,2 - 0,8%		
COLLOIDAL GOLD - P	Colloidal Gold	0,01% Au	0,05 - 0,5%		
GOLD POWDER	Gold	> 99% Au	0,01 - 0,1%		
COLLOIDAL PLATINUM	Colloidal Platinum	0,01% Pt	0,05 - 0,5%		

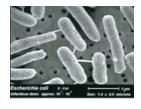
Antimicrobial mechanism:

- Inhibition of bacterial respiratory chain enzymes.
- Alteration of membrane function.
- Inhibition of cell replication.

Strengthening immune system.

No resistances founded.



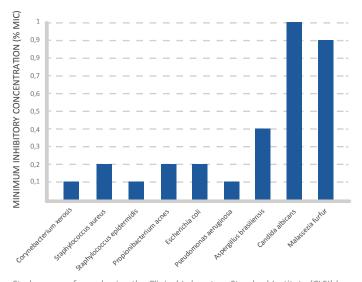


### **BENEFITS & CLAIMS**

- 1 Atopic skin care and anti-acne ingredient.
- Bacteria growth control: S. epidermidis,P. aeruginosa, P. acnes.
- 3 Cleansing of daily impurities.
- 4 Non-irritating. Dermatologically tested.
- 5 For all kind of skin and ages.
- 6 Combined with Hyaluronic Acid and Aloe Vera.

#### **ANTIMICROBIAL EFFICACY**

# MIC TEST SILVER CITRATE SOLUTION



Study was performed using the Clinical Laboratory Standard Institute (CLSI) by microdilution method (MO7-A8).

#### **DISC-PLATE ASSAY**



Antimicrobial activity vs P. epidermidis



Antimicrobial activity vs P. aeruginosa

#### **CHALLENGE TEST**

Our Silver-based actives prevents the development of microorganism in finished products. Challenge test (available for dry, greasy and sensitive skin) confirms that our products work quite well as stand-alone preservatives and antimicrobial; moreover they can be combined with other preservatives if needed.

**CLAIMS: PARABEN FREE, PRESERVATIVE FREE.** 

#### **PATCH TEST**

According to Patch Tests carried out with our products, it can be concluded that the skin compatibility of SILVER-based actives may be considered as very good.

#### **QUALITY**

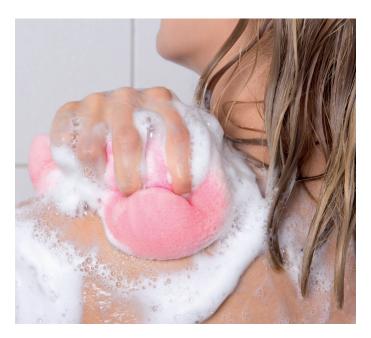
Laboratorios ARGENOL is GMP certified by Spanish Agency of Medicines and Medical Devices (AEMPS).



# **BODY CARE**

# **ANTIMICROBIAL ACTIVE - SKIN CONDITIONING**

The skin conditioning and antibacterial propierties of Silver-based ingredients used in skin care. Help our body to be healthy and care.





### **FINAL PRODUCTS**

- Atopic, depilatory, regenerating, dry and ultradry, peeling, sensitive cream.
- Body lotion, antibacterial body spray, cleansing milk and protection skin pH.
- Exfoliating soap, hypoallergenic shower gel, deodorizing foam, body wash and skin repair.
- Hand and leg care.

#### **ARGENOL PRODUCTS**

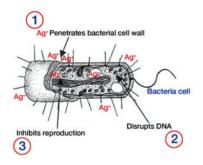
NAME	INCI	%Ag	DOSAGE RANGE	CERTIFICATION
METALLIC SILVER POWDER G/W	Silver	> 99%	0,1 - 0,3%	COSMOS ECOCERT APPROVED
SILVER CITRATE SOLUTION	Citric Acid (and) Silver Citrate	0,25%	0,2 - 1%	COSMOS ASCENDED TO THE CONTROL OF TH
SILVER SOLUTION - B	Colloidal Silver	0,25%	0,2 - 1%	Agrowed by ECOCERT
COLLOIDAL GOLD - P	Colloidal Gold	0,01% Au	0,05 - 0,5%	
GOLD POWDER	Gold	> 99% Au	0,01 - 0,1%	
COLLOIDAL PLATINUM	Colloidal Platinum	0,01% Pt	0,05 - 0,5%	

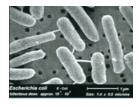
Antimicrobial mechanism:

- Inhibition of bacterial respiratory chain enzymes.
- Alteration of membrane function.
- Inhibition of cell replication.

Strengthening immune system.

No resistances founded.



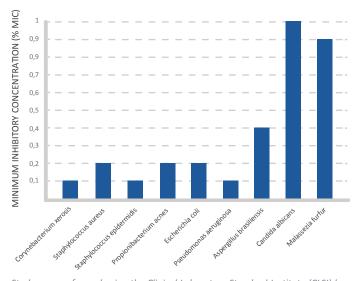


### **BENEFITS & CLAIMS**

- 1 Antibacterial activity against S. epidermis and C. xerosis.
- 2 Avoids bad odour in axilla/underarm, foot...
- 3 Non-irritating skin. Dermatollogically tested.
- 4 Non-toxic.
- No volatile compounds are generated.
- 6 Prevents the development of microorganism in final products. Preservative.

#### **ANTIMICROBIAL EFFICACY**

# MIC TEST SILVER CITRATE SOLUTION



Study was performed using the Clinical Laboratory Standard Institute (CLSI) by microdilution method (MO7-A8).

#### **DISC-PLATE ASSAY**



Antimicrobial activity vs P. epidermidis



Antimicrobial activity vs P. aeruginosa

#### **CHALLENGE TEST**

Silver-based actives prevent the development of microorganism in finished products. Challenge test (available for dry, greasy and sensitive skin) confirms that our products work quite well as stand-alone preservatives and antimicrobial; moreover they can be combined with other preservatives if needed.

**CLAIMS: PARABEN FREE, PRESERVATIVE FREE.** 

#### **PATCH TEST**

According to Patch Tests carried out with our products, it can be concluded that the skin compatibility of SILVER-based actives may be considered as very good.

#### **QUALITY**

Laboratorios ARGENOL is GMP certified by Spanish Agency of Medicines and Medical Devices (AEMPS).



# **DEODORANT**

### **ANTIMICROBIAL ACTIVE - DEODORANT AGENT**

Silver-based deodorant actives allow a controlled release of silver and inhibit skin flora associated with odour at low concentrations. It is highly effective at eliminating underarm and foot odour.





## **FINAL PRODUCTS**

- Deodorant and no gas spray.
- Deo body spray.
- Antiperspirant liquid roll-on.
- Roll-on.
- Deo stick.
- Cream.

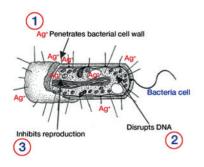
#### **ARGENOL PRODUCTS DOSAGE NAME INCI** %Ag **CERTIFICATION RANGE SILVER** Sodium Silver 2,5% 1 - 2% Aluminium Silicate **ZEOLITE** SILVER COPPER Silver Coper 1,5% 1 - 3% **ZEOLITE** Zeolite (0,5 - 4,5% Cu) COSMOS APPROVED COCERT SILVER CITRATE Citric Acid (and) 0,25% 0,2 - 1% **SOLUTION** Silver Citrate **SILVER** ECOCERT Colloidal Silver 0.25% 0.2 - 0.5% **SOLUTION - B** Pentasodium **SILVER** Pentetate (and) 0,05% 0,2 - 0,4% **SOLUTION - C**

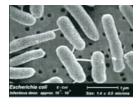
Antimicrobial mechanism:

- Inhibition of bacterial respiratory chain enzymes.
- Alteration of membrane function.
- Inhibition of cell replication.

Strengthening immune system.

No resistances founded.



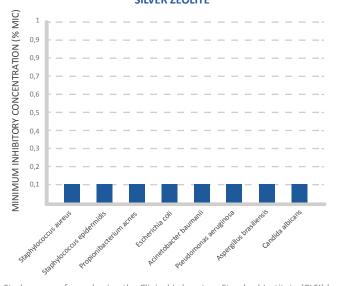


### **BENEFITS & CLAIMS**

- 1 Antibacterial activity against S. epidermis and C. xerosis.
- 2 Avoids bad odour in axilla/underarm, foot...
- 3 Non-irritating skin. Dermatollogically tested.
- 4 Non-toxic.
- No volatile compounds are generated.
- 6 Prevents the development of microorganism in final products. Preservative.

#### **ANTIMICROBIAL EFFICACY**

# MIC TEST SILVER ZEOLITE



Study was performed using the Clinical Laboratory Standard Institute (CLSI) by microdilution method (MO7-A8).

#### **DISC-PLATE ASSAY**



Antimicrobial activity vs C. xerosis



Antimicrobial activity vs P. epidermidis

#### **DEODORANT EFFICACY - SNIFF TEST**

Deodorant cream with 1,5% Silver Zeolite:

- ✓ Satisfactory application.
- ✓ Satisfactory deodorant and anti-perspirant efficacy after 12 hours.
- ✓ No traces left on skin or t-shirt.

Deodorant spray with 1% Silver Citrate Solution:

- ✓ Easy to apply.
- ✓ No residues and traces found.
- ✓ No body smell after 12 hours.

#### **CHALLENGE TEST**

Silver-based actives prevents the development of microorganism in finished products. Challenge test confirms that silver products work quite well as stand-alone preservatives; moreover they can be combined with other preservatives if needed. Therefore with only one of our deodorant agents it can achieves Deodorant and Preservative properties.

**CLAIMS: PARABEN FREE, PRESERVATIVE FREE.** 

#### **PATCH TEST**

According to Patch Tests carried out with our products, it can be concluded that the skin compatibility of SILVER-based actives may be considered as very good.



# **SILVER-BASED PRODUCTS**

# HAIR CARE ANTIMICROBIAL

Silver based hair care products helps to eliminate fungus causing dandruff and more harmful bacteria and yeast for scalp. Silver can be used as well as hair dye treatment.





#### **FINAL PRODUCTS**

- Anti-dandruff shampoo
- Standard shampoo
- Hair dye
- Dry shampoo
- Permanent shampoo
- Masks
- Nourishing products

#### **ARGENOL INGREDIENTS**

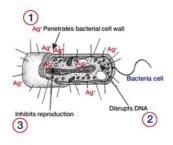
	NAME	INCI	% Ag	DOSE RANGE
COSMO APPROVE		Citric Acid (and) Silver Citrate	0,25 %	0,9 - 1 %
ECOCERT ISM HUTERAL	SILVER SOLUTION - B	Colloidal Silver	0,25 %	0,5 - 1 %
	SILVER COPPER ZEOLITE	Silver Copper Zeolite	1,5 % (0,5 – 4,5 % Cu)	0,5 – 1 %
	SILVER SULFATE	Silver Sulfate	69 %	0,8 - 1 %
	MT SOLUTION	Aqua (and) Ci Zinc Citrate ( Citrate (and) (and) Magnesiu Molybdenum Cobalt Gluc Mangane	1-5%	

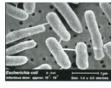
Antimicrobial mechanism:

- Inhibition of bacterial respiratory chain enzymes.
- Alteration of membrane function.
- Inhibition of cell replication.

Strengthening immune system.

No resistances founded.



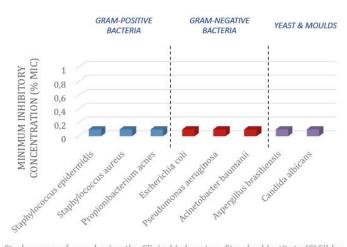


# BENEFITS & CLAIMS

- 1. Antibacterial activity against M. furfur
- 2. Safe hair dye
- 3. MT- Solution performs antibacterial broadspectrum protection, prevents dandruff, tones and nourishes the skin of your head.
- 4. Shampoo formula available
- 5. COSMOS & ECOCERT certification
- 6. Parabens and preservative free

#### ANTIMICROBIAL EFFICACY

#### **MIC TEST**



Study was performed using the Clinical Laboratory Standard Institute (CLSI) by microdilution method (M07-A8).

#### **DISC-PLATE ASSAY**



Antimicrobial activity vs P. epidermidis



Antimicrobial activity vs P. aeruginosa

#### **CHALLENGE TEST**

Silver-based actives prevent the development of microorganism in finished products. Challenge test (available for dry, greasy and sensitive skin) confirms that our products work quite well as stand-alone preservatives and antimicrobial; moreover they can be combined with other preservatives if needed.

#### **PATCH TEST**

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#### **QUALITY**

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# **FOOT CARE**

# **ANTIMICROBIAL ACTIVE - DEODORANT AGENT**

Silver-based products keep your feet fresh and effectively protected from bad odour providing anti-perspirant properties. Silver bactericide and fungicide effect prevent infections and fungi problems in feet.







### **FINAL PRODUCTS**

- Foot deodorant in spray, talc and cream.
- Foot antiperspirant spray and powder.
- Antifungal repair nails and cracked heels creams.
- Shoe deodorant.
- Antibacterial emulsions.
- Bath treatments.

#### **ARGENOL PRODUCTS**

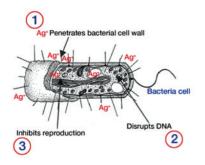
NAME	INCI	%Ag	DOSAGE RANGE	CERTIFICATION
SILVER ZEOLITE	Sodium Silver Aluminium Silicate	2,5%	1 - 2%	
SILVER COPPER ZEOLITE	Silver Copper Zeolite	1,5% (0,5 - 4,5% Cu)	1 - 3%	
SILVER CITRATE SOLUTION	Citric Acid (and) Silver Citrate	0,25%	0,2 - 1%	COSMOS APPROVED RAW MATERIAL
SILVER SOLUTION - B	Colloidal Silver	0,25%	0,2 - 0,5%	Approved by ECOCERT RAW MATERIAL
SILVER SOLUTION - C	Pentasodium Pentetate (and) Silver	0,05%	0,2 - 0,4%	
SILVER CHLORIDE ON TITANIUM DIOXIDE	Silver Chloride (and) Titanium Dioxide	1,5%	0,15 - 0,2%	

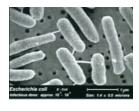
Antimicrobial mechanism:

- Inhibition of bacterial respiratory chain enzymes.
- Alteration of membrane function.
- Inhibition of cell replication.

Strengthening immune system.

No resistances founded.





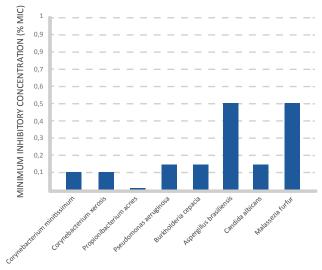
### **BENEFITS & CLAIMS**

- 1 Bacteria and fungi growth control: A. brasiliensis, C. albicans, S. epidermis, C. xerosis.
- 2 Avoid bad odour causing bacteria.
- 3 Non-irritating. Dermatologically tested.
- 4 Prevent the formation of athlete's foot or micotic infections.
- 5 Inhibition of fungi feet-nails problems.

#### **ANTIMICROBIAL EFFICACY**

#### **MIC TEST**

#### **SILVER COPPER ZEOLITE**



Study was performed using the Clinical Laboratory Standard Institute (CLSI) by microdilution method (MO7-A8).

#### **DISC-PLATE ASSAY**



Antimicrobial activity vs A. brasiliensis



Antimicrobial activity vs C. albicans

#### **DEODORANT EFFICACY - SNIFF TEST**

Deodorant cream with 1,5% Silver Zeolite:

- ✓ Satisfactory application.
- ✓ Satisfactory deodorant and anti-perspirant efficacy after 12 hours.
- ✓ No traces left on skin.

Deodorant spray with 1% Silver Citrate Solution:

- ✓ Easy to apply.
- ✓ No residues and traces found.
- ✓ No smell after 12 hours.

#### **CHALLENGE TEST**

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