



Scars

Keloids

Burns

Stretch Marks

Athletic Injuries

Ulcerated Leg Wounds

Acne Scars

AlpaWash® & CopaSil®

COMPOUNDING SOLUTIONS FOR WOUND AND SCAR MEDICATIONS



Where Nature Can Help Treat
WHAT'S BENEATH THE SURFACE

 MEDISCA®

AlpaWash[®] & CopaSil[®]

COMPOUNDING SOLUTIONS FOR WOUND AND SCAR MEDICATIONS

Combining some of the finest ingredients located in the Swiss Alps and the Amazon, MEDISCA's AlpaWash and CopaSil embody a **natural** and **scientifically sound** solution for compounding in wound care!

AlpaWash® & CopaSil®



Wound healing should come naturally, but sometimes due to complications, poor circulation or infection, the healing process can be slow or difficult which can result in wounds that are hard to heal. Various active pharmaceutical ingredients are prescribed by physicians for the treatment of wounds in compounded medications. For such medications to work at their best, the right bases and vehicles are important so that the medication can be delivered to the site in the optimal manner to facilitate the healing process.

MEDISCA's **wound & scar product line** has been designed to help optimize the bases and medication vehicles used in compounded medications prescribed by the physician for treatment in all stages of the repair process: the inflammatory stage, the re-epithelialization stage, and the remodeling stage.

AlpaWash and **CopaSil**, MEDISCA's unique formulations, contain scientifically supported ingredients. Carefully selected, each key ingredient provides a distinct role within each stage of wound healing.

Specialized bases for use in compounded products prescribed for:

AlpaWash
WOUNDS

CopaSil
SCARS



Inflammation

Re-epithelialization

Remodeling

- Alpaflor® Imperatoria AO
- Micronized Green propolis



- Copaiba oil
- Sweet Almond oil
- Inca Inchi Lipactive®



AlpaWash®

FOR COMPOUNDING WOUND CARE PRODUCTS



Inflammation

Re-epithelialization

AlpaWash base is a unique PEG base that does not contain oleaginous components. It is completely water-washable and greaseless. **AlpaWash** contains natural extracts that have been thoroughly studied and can be beneficial in compounded medications prescribed for wound care.

Selection of the base to use in compounding for wound care depends on a careful assessment of a number of factors, including the following:

- Desire for a base that is easily removed by washing with water, since the wounds need to be cleaned very often;
- Desirability of occlusion of moisture from the skin (adherent base), maintaining a moist environment;
- Stability of the active pharmaceutical ingredients prescribed by the physician for inclusion in the base.

AlpaWash provides the best combination of the most desired attributes and brings a **solution** to healthcare providers for compounded products prescribed for wounds, burns, cuts, sores and ulcers.

Free of Parabens, Propylene Glycol, Water, Petrolatum and Lanolin



MICRONIZED GREEN PROPOLIS

A natural Brazilian sealing and soothing resinous substance traditionally used as an ingredient in anti-inflammatory medications



ALPAFLOR® IMPERATORIA AO

A rich calming extract from Switzerland

As per USP, chapter <3>, depending on the use of the dosage form (e.g., products that will be applied to open wounds or burned areas), sterility of the product should be demonstrated as appropriate. Alpaflor® Imperatoria AO, a registered Trademark from DSM.

Re-epithelialization

Remodeling

CopaSil is an anhydrous silicone base, primarily designed for use in scar care products. This unique formula was carefully developed to help sustain the moist environment around the skin required for wound healing, thus allowing the medication to improve the appearance of a scar.

This combination of these plant-derived ingredients creates a synergistic effect on the skin, imparting critical benefits in scar treatment:

- It keeps the stratum corneum in optimal hydration. It results into a less pigmented and softer scar;
- It provides the optimum conditions for allowing the active ingredient to reduce the inflammation process and help in the remodelling of a scar;
- It helps protect the skin from bacterial invasion;
- It helps soothe the itching and discomfort associated with scars.

CopaSil is a functional base that can be used alone or in combination with several active ingredients (e.g.: Antibiotics, anti-inflammatory drugs, etc.) Its intrinsic and biomechanical properties render it ideal for compounding various dermatological products often prescribed for: scars in general, keloids, psoriasis, rosacea, stretch marks and wound healing.

Free of Mineral Oil, Lanolin, Parabens, Dyes, Propylene Glycol and Water



COPAIBA OIL

A rainforest oil used by Amazonian population to help provide a shield against harmful organisms in traditional compounded treatments in wound healing



SWEET ALMOND OIL AND INCA INCHI LIPACTIVE®

The richest oils in fatty acids with multifunctional applications in skin softening, smoothing and moisturization

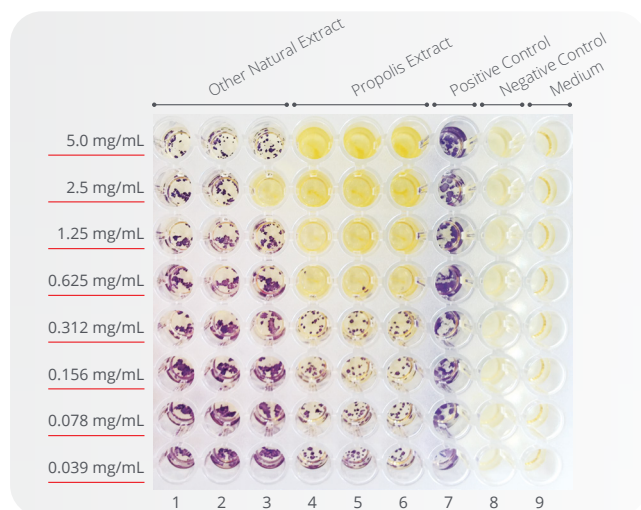
Scientific References

ALPAWASH®



The following information is provided for your information only. No claims or representations are made with regard to the activity or lack thereof of any compounded medication, particularly the medications referenced here.

Propolis Extract



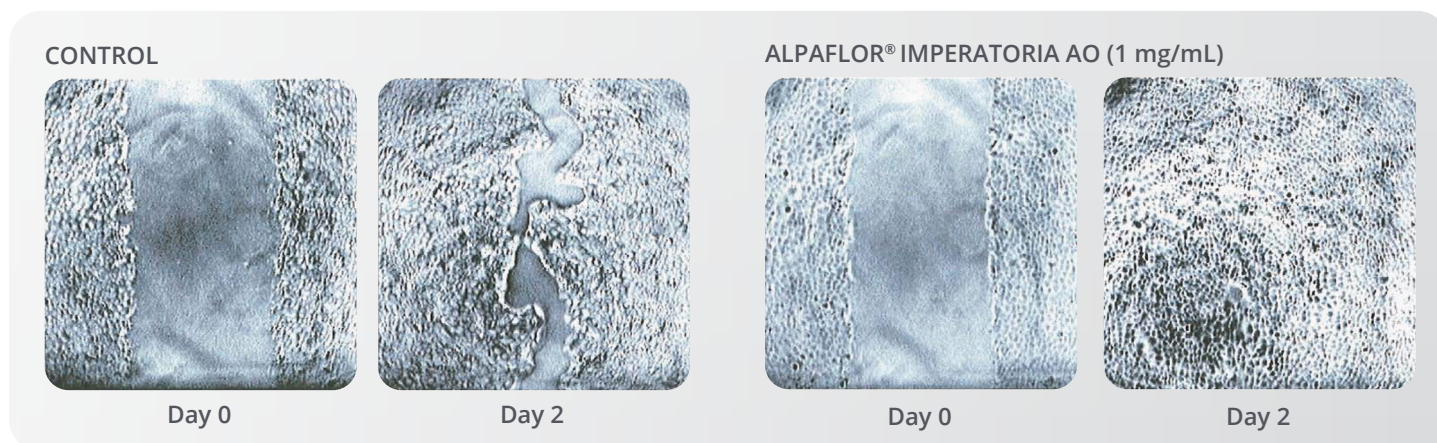
The Minimum Inhibitory Concentration (MIC) of Propolis extract and another natural extract were evaluated against *Staphylococcus aureus*. **Propolis extract can potentially seal the wound against external bacteria** with a MIC of only 1.25 mg/mL, while the other natural extract never showed effectiveness in this experiment.

See the full article published in
IJPC (Vol.20, No.1) on [www.medisca.com/
studies/publications/topical](http://www.medisca.com/studies/publications/topical)

Minimum Inhibitory Concentration conducted in the microdilution test plate against ATCC 25923 *Staphylococcus aureus* at a concentration of 1.5×10^3 CFU/mL. Columns 1, 2, 3 correspond to the natural extract; 4, 5, 6 to Propolis extract; 7 to the positive control; 8 to the negative control; and 9 to the medium (sterility control).

Alpaflor® Imperatoria AO

Scratch area goes from **100 % to 0.33 % of initial area in 3 days incubation**, at 1 mg/mL of Alpaflor Imperatoria AO. In-vitro tests demonstrated its properties which provide an **optimum environment for re-epithelialization** to take place.



Alpaflor® Imperatoria AO, a registered Trademark from DSM.

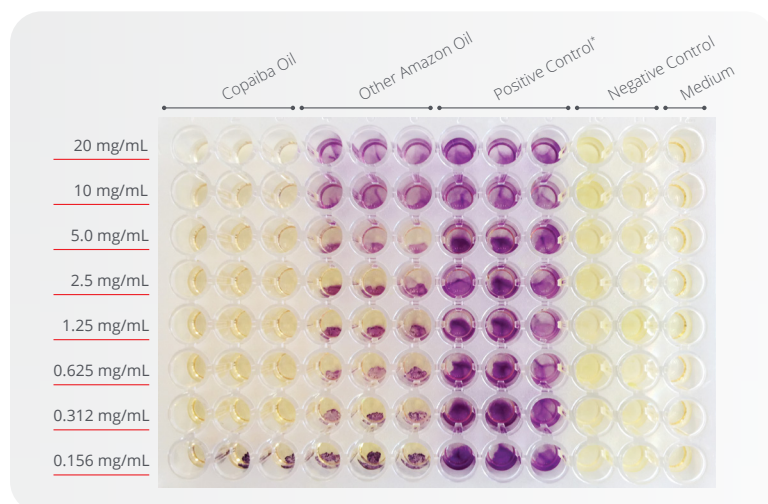
Scientific References

COPASIL®



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Copaiba Oil



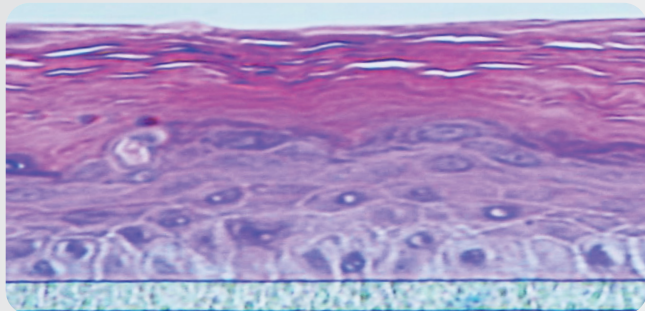
The Minimum Inhibitory Concentration (MIC) of Copaiba oil and another Amazonian oil were evaluated against *Staphylococcus aureus*. **Copaiba oil can potentially seal the wound against external bacteria** with a MIC of only 0.312 mg/mL, while the other Amazonian oil never showed effectiveness in this experiment.

See the full article published in IJPC (Vol.20, No.4) on www.medisca.com/studies/publications/topical

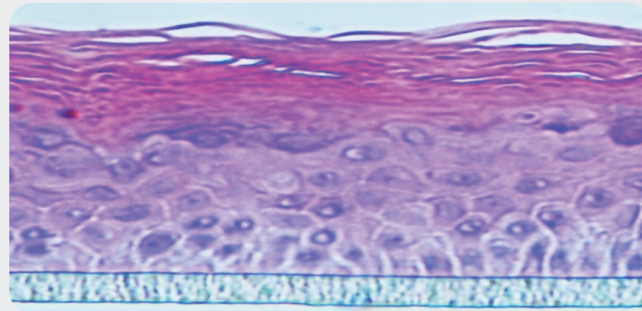
Staphylococcus aureus ATCC 103 bacterial cells/M1. Minimum inhibitory concentration (MIC) of Copaiba Oil: 0.321 mg/mL | *Bacterial Growth (Medium+Bacteria)

Inca Inchi Lipactive®

Immunohistochemistry has shown that after 24 hours of incubation, **Inca Inchi Lipactive at 1 % has decreased the keratinocyte differentiation in reconstructed epidermis**. In-vitro test demonstrated that it provides the optimum conditions to allow cellular regeneration and then the **improvement of stratum corneum properties**.



Reconstructed epidermis as control



Reconstructed epidermis treated with Inca Inchi Lipactive® at 1 % for 24 hours

INCA INCHI LIPACTIVE®, a registered Trademark from GREENTECH.

NEW!

In Vivo Study



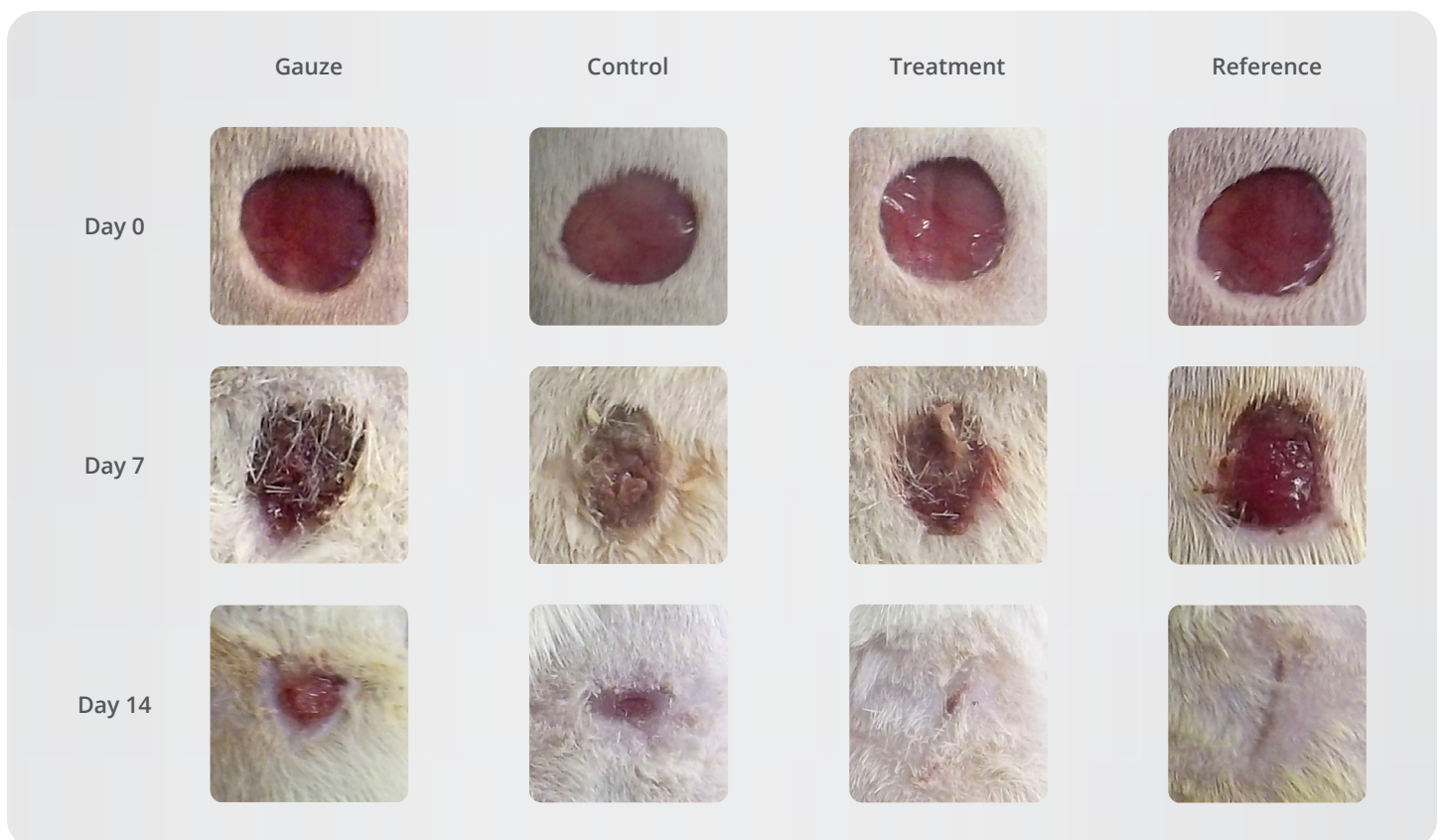
An in vivo study was conducted by the University of Sao Paulo School of Medicine to assess the efficacy and safety for the treatment of wounds created by surgical punch in rats* by comparing the following interventions over the course of 14 days:

- Gauze-only group (**G**);
- Polyethylene glycol (PEG) based ointment (**Control**);
- AlpaWash® PEG ointment containing Green Propolis and Alpaflor® Imperatoria AO (**Treatment**);
- Commercial oil-based antibiotic ointment containing Bacitracin and Polymyxin B (**Reference Standard**).

The results show that all ointments tested were beneficial to **encourage healing** versus gauze alone, **likely due to the moisture and occlusion** they provide.

AlpaWash and the antibiotic ointment showed **additional anti-inflammatory effects** upon histological analysis and produced **accelerated healing of the wounds** (see photos). Due to the disadvantages presented by synthetic antibiotics such as the potential for patient allergies and the emergence of dangerous antibiotic-resistant microbes, **AlpaWash which contains effective natural extracts such as green propolis in a water-washable ointment, is a promising option for the future of compounded wound treatments.**

*The protocol was approved by the Ethics Committee on Animal Experimentation (CETEA), Ribeirão Preto School of Medicine, University of São Paulo (FMRP-USP), registry number 028/2015-1



Alpaflor® Imperatoria AO, a registered Trademark from DSM.

Case Studies

Illustrating skin moisturization, soothing, reduction in the appearance of scarring using MEDISCA bases without any active ingredients.



RESULTS | VOLUNTEER 1

Caucasian man sustained a sports injury on a significant portion of his leg after skidding on synthetic turf. He applied AlpaWash® on the area twice daily. No other product was applied.



Day 0



Week 1

After 1 week,

the wounds are closed and the redness is greatly reduced.

Subsequently, volunteer 1 began to apply CopaSil to the closed wound twice daily.



Week 2

After 2 weeks,

the results show a nearly complete resolution of redness.

During my football season I would have constant wounds since I would keep opening them up every game. My turf burns usually get very dry and itchy so I was concerned that any product would make my wound even more dry and uncomfortable.

AlpaWash closed my wound in a few days** and kept the area from getting dry. Not only did this product make my wound heal a lot quicker, but it was **very soothing upon application**. It smells nice and is easily absorbed when applied so **I definitely recommend AlpaWash.

Case Studies

Illustrating skin moisturization, soothing, reduction in the appearance of scarring using MEDISCA bases without any active ingredients.

RESULTS | VOLUNTEER 2

Caucasian man underwent surgery on the side of his face. He applied AlpaWash® alone to the site of incision once daily for approximately 1 week.



Day 0



Day 10

After just 10 days,
the scar has become much less
apparent.

After the removal of stitches, volunteer 2 began to apply CopaSil® twice daily to the area. No other products were used.



Week 8

After 2 months,
the length and redness of the scar is greatly improved and it is barely visible.

*I got this scar due to a surgery and what was supposed to be a simple removal, turned into a plastic surgeon having to go in and remove something under the skin, causing the stitches and would-be scar. I used both AlpaWash and CopaSil which worked very rapidly. There is no real scent and they apply very easily. They have a great texture and actually **soothe the skin** while healing.*

*The gels left my skin feeling **moisturized** without any residue and they rub in really well – no one can tell the product is on the skin. A big benefit is that a little bit goes a long way. I used a little bit in the morning and a little bit at night and I applied it to the scar/wound on my face. To be honest, because I used the products right away, a real scar never fully developed. **CopaSil is literally the best scar gel on the market.***



RESULTS | VOLUNTEER 3

Caucasian man had surgery on his left hand. After complete closure of the wound, he used CopaSil® three times a day for 8 weeks on the new scar. No other product was used during this time.



Day 0



Week 1

After 1 week,

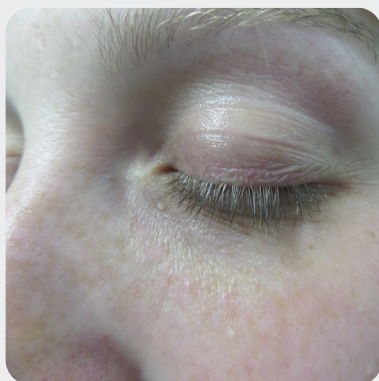
the scar is less red and less apparent.

RESULTS | VOLUNTEER 4

Caucasian woman awoke with a scratch on her face of unknown origin. After 4 weeks, and using a commercial antibiotic ointment, the scar was still red and visible. She applied CopaSil three times daily for 1 month. She discontinued the use of other products during this period.



Day 0



Week 4

After 1 month,

the scar has completely faded and is no longer visible.

*I had a scratch/rash on my face that wouldn't go away. I tried Polysporin® and facial cream but nothing worked. When I found out about CopaSil, I thought I'd give it a try. Within a few days you could already see a big difference; after a month of applying the gel, **the redness was completely gone**. I liked that it was odorless and clear when applied to the skin. It's so simple to use, **I would highly recommend it!***

Case Studies

Illustrating skin moisturization, soothing, reduction in the appearance of scarring using MEDISCA bases without any active ingredients.



RESULTS | VOLUNTEER 5

Caucasian man suffered an injury on his leg thus leaving behind a very pronounced red scar. The scar was left untreated for over 3 months, at which point CopaSil® was applied 3 times a day for 1 week.



Day 0



Week 1

After 1 week,
the scar appears shorter, and
significantly less red.

For continued improvements, volunteer 5 maintained his usage of CopaSil for 2 more weeks.



Week 3

After 3 weeks,
the scar is less apparent and the redness has been further reduced.

DO YOU HAVE A SUCCESS STORY?

Share your case study today!

<https://www.medisca.com/products/compounding-bases/creams/alpawash-copasil-case-study-form>

**When should AlpaWash and CopaSil be used?**

AlpaWash® should be used when dealing with the wound healing process. CopaSil® can be used to improve the appearance of scars, both old and new.

How are AlpaWash and CopaSil applied?

Both AlpaWash and CopaSil can be applied by simply rubbing it on the affected area.

Does the area need to be covered by a bandage?

As AlpaWash is a thick ointment intended for wound care, a bandage will likely be more comfortable and will offer further protection to the wound. CopaSil is intended for closed wounds and scars and has a silky, dry after-feel that would not require a bandage to cover.

Can the Scar & Wound products be used on sensitive skin or people with allergies?

Both CopaSil and AlpaWash are dermatologist-tested and shown to be hypoallergenic and a non-primary irritant via clinical testing. Specific allergen information can be obtained upon request.

Can CopaSil be used on an open wound*?

CopaSil is designed primarily for use in scar care products. When dealing with treating an open wound, AlpaWash would be the more effective treatment.

Are AlpaWash and CopaSil washable?

AlpaWash is easily washable with water, with no soap required and no residue left after washing. CopaSil is not intended to be washed off; it will form a protective and occlusive barrier on the skin.

Can AlpaWash and CopaSil be used on animals?

There is preliminary evidence and reported results to support the use of AlpaWash and CopaSil on animals. Please consult a veterinarian prior to use for each specific case.

Can AlpaWash and CopaSil be used orally or vaginally?

No, we do not recommend these products for oral or vaginal use.

For complete FAQs visit www.medisca.com

AlpaWash and CopaSil FAQs can also be added to a healthcare provider's website upon request.

Contact your MEDISCA representative for more information.

*As per USP, chapter <3>, depending on the use of the dosage form (e.g., products that will be applied to open wounds or burned areas), sterility of the product should be demonstrated as appropriate.

Formulation Examples



ALPAWASH FORMULAS

F 006 358	Lidocaine Hydrochloride 2 %, Metronidazole 2 %, Misoprostol 0.0024 % Topical Ointment
F 006 359	Itraconazole 1 %, Levofloxacin 2 %, Mupirocin 2 % Topical Ointment
F 006 360	Fluticasone Propionate 1 %, Itraconazole 2 % Topical Ointment
F 006 361	Misoprostol 0.0024 %, Nifedipine 2 %, Phenytoin Sodium 5 % Topical Ointment
F 006 362	Aloe Vera 0.2 %, Ketoprofen 2 %, Lidocaine 2 %, Misoprostol 0.0024 %, Phenytoin Sodium 2 % Topical Ointment
F 006 363	Mupirocin 2 %, Vancomycin 5 % Topical Ointment
F 006 652	Itraconazole 1 %, Levofloxacin 2 %, Lidocaine Hydrochloride 5 %, Metronidazole 2 %, Misoprostol 0.0024 % Phenytoin Sodium 5 %, Sucralfate 2 %, Vancomycin 5 % Topical Ointment
F 006 653	Gabapentin 10 % Topical Ointment
F 006 654	Urea 10 % Topical Ointment

COPASIL FORMULAS

F 006 352	Ascorbic Acid 2 %, Caffeine 1 %, Epigallocatechin Gallate 1 %, Methylsulfonylmethane 5 % Topical Gel
F 008 428	Aloe Vera 0.3 %, Verapamil Hydrochloride 10 % Topical Gel (Suspension, 50 g)
F 008 429	Caffeine 1 %, Pentoxifylline 0.5 %, Resveratrol 0.1 % Topical Gel (Suspension, 50 g)
F 008 430	Betamethasone Valerate 0.12 %, Dexpanthenol 5 %, Tea Tree Oil 1 % Topical Gel (Suspension, 50 g)
F 006 611	Gabapentin 10 % Topical Gel
F 006 615	Hydrocortisone 2 %, Hydroquinone 6 %, Kojic Acid 4 %, Salicylic Acid 4 %, Tretinoin 0.01 % Topical Gel
F 006 651	Hydroquinone 8 % Topical Gel

GET A FREE
CUSTOMIZED FORMULA* WHEN YOU PURCHASE
AlpaWash® or CopaSil®

*Formula based on physician prescription



References



1. HORI, J.I.; ZAMBONI, D.S.; CARRÃO, D.B.; GOLDMAN, G.H.; BERRETA, A.A. The Inhibition of Inflammation by Brazilian Propolis (EPP-AF). Evidence-Based Complementary and Alternative Medicine, 2013.
2. ALMEIDA, E.B.; CARDOSO, J.C.; LIMA, A.K.; OLIVEIRA, N.L.; PONTES-FILHO, N.T.; LIMA, S.O.; SOUZA, C.L.; ALBUQUERQUE-JUNIOR, R.L.C. The incorporation of Brazilian propolis into collagen-based dressing films improves dermal burn healing. Journal of Ethnopharmacology, v. 147, p. 419-425, 2013.
3. ANSEL, H.C.; POPOVICH, N.G.; ALLEN L.V. Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems. 8th edition. Lippincott Williams & Wilkins, 2005. p.276-279.
4. BROUGHTON, G.; JANIS, J.E.; ATTINGER, C.E. The Basic Science of Wound Healing. Plastic and Reconstructive Surgery. v.117, n.7, 2006.
5. FIELD, C.K.; KERSTEIN, M.D. Overview of wound healing in a moist environment. The American Journal of Surgery. V.167. 1994. p.S2-S6.
6. Study report – Assessment of the healing effects of a vegetal extract in an in vitro model of reepithelialization. Alpaflor S.A. Research and Development. Switzerland. p.1-8, 2004.
7. SEHN, E.; HERNANDES, L.; FRANCO, S.L.; GONÇALVES, C.C.M.; BAESSO, M.L. Dynamics of reepithelialisation and penetration rate of a bee propolis formulation during cutaneous wound healing. Analytica Chimica Acta. v.635, p.115-120, 2009.
8. KUCHARZEWSKI, M.; KUBACKA, S.; URBANEK, T.; WILEMSKA-KUCHARZEWSKA, K.; MORAWIEC, T. Stan Scheller: The Forerunner of Clinical Studies on Using Propolis for Poor and Chronic Nonhealing Wounds. Evidence-Based Complementary and Alternative Medicine, 2013.
9. MOMEN, M.; HAFEZI, F.; RAHBAR, H.; KARIMI, H. Effect of Silicone gel on burn scars. Burns, n.35, p.70-74, 2009.
10. PURI, N.; TALWAR, A. The efficacy of Silicone gel for the treatment of hypertrophic scars and keloids. Journal of Cutaneous and Aesthetic Surgery. v.2, n.2, p. 104-106, 2009.
11. GELMINI, F.; BERETTA, G.; ANSELMINI, C.; CENTINI, M.; MAGNI, P.; RUSCICA, M.; CAVALCHINI, A.; FACINO, R.M. CG-MS profiling of the phytochemical constituents of the oleoresin from *Copaifera langsdorffii* Desf. And preliminary in-vivo evaluation of its antipsoriatic effect. International Journal of Pharmaceutics, v.440, p.170-178, 2013.
12. LEANDRO, L.; VARGAS, F.S.; BARBOSA, P.C.S.; NEVES, J.K.O.; SILVA, J.A.; VEIGA-JUNIOR, V.F. Chemistry and Biological Activities of Terpenoids from *Copaiba* (*Copaifera* spp.) Oleoresins. Molecules, v.17, p.3866-3889, 2012.
13. Study Report – In vitro test: Keratinocytes differentiation, GreenTech, 2012.
14. CARDOSO, C.R.B.; SOUZA, M.A.; FERRO, E.A.V.; FAVORETO, S.; PENA, J.D.O. Influence of topical administration of n-3 and n-6 essential and n-9 nonessential fatty acids on the healing of cutaneous wound. Repair Regn. v.12, n.2, p. 235-243, 2004.
15. ZEESHAN, A. The uses and properties of almond oil. Complementary Therapies in Clinical Practice, n. 16, p. 10-12, 2010.
16. RIOS, L.; DELTORT, S.; BERTHON, J.Y. Lipactive Inca Inchi® - The richest oil in essential fatty acids with multifunctional applications for Cosmetics. Cosmetic Science Technology, 2007.
17. NOGUEIRA, R.J.L.; DANOPOULOS, P.; SWIKIDISA, R.; PINHEIRO, V.A. Evaluation of the Antibacterial Activity of Green Propolis Extract and Meadowsweet Extract Against *Staphylococcus aureus* Bacteria: Importance in Wound Care Compounding Preparations. International Journal of Pharmaceutical Compounding. v.20, n.4, p.333-337, 2016.
18. GUIMARAES, A.L.A.; CUNHA, E.A.; MATIAS, F.O.; GARCIA, P.G.; DANOPOULOS, P.; SWIKIDISA, R.; PINHEIRO, V.A.; NOGUEIRA, R.J.L. Antimicrobial Activity of *Copaiba* (*Copaifera officinalis*) and *Pracaxi* (*Pentaclethra macrobola*) Oils Against *Staphylococcus aureus*: Importance in Compounding for Wound Care. International Journal of Pharmaceutical Compounding. v. 20, n.1, p. 58-62, 2016.



From the peaks of the Swiss Alps to the depths of the Amazon River, MEDISCA presents two ground-breaking products, **AlpaWash** and **CopaSil**. Through advanced research and development, these two unique formulations play a distinct role within each stage of healing and embody a natural and scientifically sound solution for compounding in wound care.



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 **MEDISCA®**