



Forticept[®] **Advanced Animal Care**

management, skin care, and post-operative care.

Lidan, Inc was founded in 2014 with the mission to develop novel polymer based products for various fields of life science using evidenced-based approach. All of our products are based on proprietary platform that combines novel polymer technology with existing and well-studied active ingredients. This platform allows the development of products that are superior to the existing ones in every aspect.

The Research and Development team at Lidan has knowledge and experience in development of drugs, cosmetics, agricultural products, and in bioactive formulations for other consumer products.

Lidan's R&D department employs science-based approach to all formulations regardless of the type of application. It applies to all of our Forticept® products. In empirical tests our new products typically exceed the efficacy of the prior art without compromising the health or safety of the person, animal or plant that is being treated. In addition, our products are designed to be environmentally friendly and to comply with the applicable regulations.

Forticept® line of products is based on Lidan's proprietary polymer technology platform that combines novel polymer technology with existing and well-studied ingredients.

This technology empowers well known active ingredients to exhibit new levels of efficacy against various microorganisms, significantly improving safety, comfort, and quality of life. The mechanisms of action for the active ingredients used in our products are well studied by scientific community. Our products demonstrate results that significantly exceed all expectations!



» forticept® Advanced Animal Care



For companion animals



Maxi-Wash™
Antimicrobial Skin &
Wound Treatment
(Wound Cleanser)



Blue Butter®
Antimicrobial Gel /
Wound dressing
hydrogel



Fortecleaz™
Moisturizing & Conditioning
Shampoo



Fortecleaz™ Pro
Medicated
Antimicrobial
Shampoo



Paw-Forte™
Antimicrobial
Protection Balm /
Barrier Ointment

STANDARDIZING WOUND CARE AND MANAGEMENT

Protocols for wound care and management in clinical environment are rarely straight forward and streamlined. Currently, large number of clinics lack best-practice recommendations. Forticept® offers simplified care system that fulfills need for a standard of care while reducing time and cost for veterinary practices.

OPTIMIZED OUTCOMES FOR VETERINARY PRACTICES

Forticept® is a new generation of products that come together as flexible, intuitive, and modular wound and skin care management system used for cleansing, irrigating and debriding wounds, dressing and bandaging wounds, protecting skin and setting the stage for optimal healing conditions. Forticept® Maxi-Wash assist in the mechanical removal of cellular debris, necrotic tissue, and foreign material from the skin and wound surface through mechanical debridement. Forticept® Blue Butter and Green Butter Antimicrobial hydrogels protect wounds from pathogenic microflora, provide moist wound environment and promote healing.

FORTICEPT PRODUCTS POWERED BY ADVANCED POLYMER TECHNOLOGY

From dermatology to post-operative care, Forticept product line provides simple and effective solutions for a range of veterinary wound and skin care needs. Powered by an advanced polymer technology, Forticept® empowers veterinarians with a portfolio of products.

» forticept® Advanced Animal Care



FORTICEPT® PRODUCTS ARE AS SAFE AND EFFECTIVE

All Forticept® products were formulated with set of ingredients that insure safety of the patient and the most effective application route.

- + Non-cytotoxic
- + pH Balanced - no stinging or sensitization
- + No toxicity - safe if licked or ingested
- + No antibiotics, steroids, or alcohol
- + Safe for all stages of life
- + No contraindications

Forticept® products appropriate for all phases of the wound healing process.

Maxi-Wash™ is an antimicrobial wound cleanser for cleansing, irrigating, debriding, and moisturizing wounds. It is non-toxic, pH balanced non-irritating formula that contains blend of mild surfactants and broad spectrum antimicrobial agent.

Blue Butter® is non-cytotoxic, non-irritating, and non-sensitizing antimicrobial hydrogel that promotes healing and has no oral toxicity.

These products are used as the dressing for acute and chronic wounds.

These safety features allow the liquid and hydrogels to be used on all dermal tissues without damaging fibroblasts and granulating tissue.

NO CONTRAINDICATIONS

There are no known drug interactions or treatment contraindications with Forticept® products.

QUALITY, SHELF LIFE, & STABILITY

All products are manufactured in FDA registered facility under stringent GMP requirements and thoroughly tested before they leave the factory. Forticept® products are available in various packaging sizes suitable for in-clinic and post-procedure care at home. Products have the shelf life of 24 and completed standard stability protocol for the dosage form and the levels of active ingredients.

COMPLETE CARE PACKAGE

Our products are formulated to be very effective on their own or to be used complementary to one another to bring even higher efficacy when used together as a comprehensive wound and skin care system.





forticept® Maxi Wash

ANTIMICROBIAL SKIN & WOUND TREATMENT
(Wound Cleanser)

NDC Code(s):

72127-0704-0, 72127-0704-2

Route of Administration: Topical

Dosage Form: Spray

Size(s): 4 oz., 8 oz.

Active Ingredient:

Benzalkonium Chloride – 0.13%

Purpose:

Wound Care & Skin Care –
Antiseptic & Cleansing agent

Shelf Life: 2 years



Maxi-Wash™ is a topical antiseptic that helps remove dirt and debris. It can be used in the treatment of wounds, superficial minor skin irritations. Maxi-Wash™ is effective against both gram-negative and gram-positive bacteria, ringworm, protozoa and some viruses. Rapid acting solution with a moderately long duration of action helps keep wound protected over extended period of time. Topical antiseptic to help decrease the risk of infection.

- + Fast acting formula
- + pH-balanced for gentle & effective cleansing
- + Helps reduce risk of infection
- + Supports healing

PRODUCT DESCRIPTION:

Benzalkonium chloride is a broad-spectrum antimicrobial ingredient and incredibly effective disinfectant and antiseptic, which is why it is commonly used in first-aid and antiseptic products. Wound care products that use BAC can offer great protection against bacteria, fungi, and even variety of viruses as well as a powerful treatment of any infection that has already set in. BAC will keep the skin healthy and clean.

This product is based on our proprietary polymer technology that allows fast disinfection and removal of dirt and debris from the injured skin. It has near neutral pH and contains no alcohol providing non-stinging surfactant action for wound cleaning and disinfection. In addition, it forms protective film on the surface of the skin and wound that helps maintain it free of pathogens for extended period of time (12 to 48 hours depending on conditions). In our IN VITRO testing of surface disinfection properties, Forticept® Maxi-Wash™ demonstrated incredibly fast (10 seconds) action against various pathogenic bacteria and fungi.

Maxi-Wash™ is a perfect match for small and large companion animals. It provides fast acting disinfection and protection against infection of skin injuries. Not only it helps with resolving infections, it promotes healing!

SIZE (OZ)	8 OZ
PRODUCT ID	FPTMW08
UPC	853559007217
UNIT DIMENSIONS (INCHES)	1.9X1.9X9.0
UNIT WEIGHT (LBS)	0,63
UNITS PER CASE	12
CASE WEIGHT (LBS)	7,72
UPC / CASE	853 559 007 347



» Maxi Wash™ CLINICAL EFFICACY

A dog was delivered to the clinic after a fall into the trap for animal apprehension, in which it spent more than 6 hours (Fig. 1). To carry out the surgical intervention, the animal was subjected to anesthesia.
The forecast – unfavorable outcome and amputation.

CONCLUSION:

1. Despite unfavorable treatment forecast for the acute traumatic lacerated injury of the hind limb, the dog experienced almost complete recovery on the 17th day.

2. **Forticept® Maxi Wash** has provided a prolonged antimicrobial effect when used as monotherapy for treating a post-operative wound.

3. **Forticept® Maxi-Wash™** did not have any cytotoxic effect on the wound and promoted rapid healing.



Figure 1. Condition of wound upon first examination



Figure 2. Wound condition after surgery



Figure 3. Wound condition 4 days after surgery



Figure 4. Condition of wound on the 17th day.

Forticept® Maxi Wash wound cleanser was used prior to surgical procedures were performed according to the standard protocol. Following the surgery the area was irrigated prior to the dressing application to the limb (Fig. 2). The dog remained and treated in the clinic for 4 days. Consequently, the dog was treated at home and Maxi-Wash™ was used every dressing change (Fig. 3). The owner brought the dog to the clinic on the 17th day to remove stitches (Fig. 4)

» **forticept® Blue Butter®**

ANTIMICROBIAL GEL



SIZE (OZ)	4 OZ
PRODUCT ID	FPTBB04
UPC	853559007002
UNIT DIMENSIONS (INCHES)	2.75X2.75X1.77
UNIT WEIGHT (LBS)	0,33
UNITS PER CASE	12
CASE WEIGHT (LBS)	4
UPC / CASE	853559007279

- Antiseptic and anti-inflammatory
- Promotes healing of wounds, abrasions, burns and cracked skin
- Antibiotic-free & Steroid-free
- Moisturizes, nourishes, and conditions skin
- Provides soothing effect on sites of insect bites
- pH-Balanced



NDC Code(s):

72127-0702-4, 72127-0702-8

Route of Administration:

Topical

Dosage Form:

Semi-solid, Gel

Size(s): 4 oz., 8 oz.

Active Ingredient:

Benzethonium Chloride – 0.1%,

Thymol – 0.1%

Purpose:

Skin Care, Wound Care,

Antiseptic, Dressing

Shelf Life: 2 years



Forticept® Blue Butter® Antimicrobial Gel is a safe and effective non-toxic, non-greasy, non-irritating hydrogel. It is a part of new generation of antimicrobial wound and skin care products based on Lidan's proprietary polymer technology.

It helps prevent and control infection as well as promote healing of multiple conditions: traumatic wounds, post-operative wounds, hot spots, cuts, sores, lacerations, abrasions, rashes and burns.

In clinical studies the Blue Butter demonstrated efficacy in resolution of complex multi-organism canine pyoderma regardless of antibiotic resistance in number of microorganisms.

Blue Butter® contains no harsh oxidative chemicals, antibiotics, steroids or hormones, and delivers broad-spectrum antiseptic and anti-inflammatory action. When applied, it provides skin nourishment and promotes healing of the skin as well as it reduces irritation.

The product can be used on a regular basis for daily skin care for moisturizing, protecting and preserving the natural barrier of the animal skin; or as a First-Aid wound care for treatment of wounds, cracks, abrasions and burns, as well as for topical treatment of the sites of insect bites.

Blue Butter® Antimicrobial gel has been tested in clinical environment and found to be effective against multitude of microorganisms including but not limited to gram-positive & gram-negative bacteria, fungi, and protozoa: MRSA, E. Coli, P. aeruginosa, B. subtilis, C. albicans, Tinea, B. Strep and many more.

Forticept® Blue Butter® is a perfect match for clinical and at home treatment of small and large companion animals. It provides fast acting disinfection and protection against infection of skin injuries. It not only it helps with resolving infections, it promotes healing!

» **Blue Butter®** CLINICAL EFFICACY

A dog was brought to the clinic for the treatment of non-healing post-operative wound: Staffordshire terrier after sterilization and mastectomy. The edges of seams were found hyperemic. An adhesion of tissues was not observed; in places where skin tissue was separated -visible purulent efflux and a partial necrosis of muscles of in abdominal cavity (Fig. 1).

The forecast – unfavorable outcome.



Figure 1. Condition of wound upon first examination



Figure 2. Condition of wound upon first application of **Blue Butter®**



Figure 3. Condition of the wound 48 hours after first application of **Blue Butter®**



After extensive interview of the pet owner it became known that 1 week of post-operative wound care with antibiotic ointment was ineffective and no significant progress toward wound closure was observed.

The general condition of the animal was quickly deteriorating. After preliminary wound cleansing with antiseptic solution, a wound was packed with **Forticept® Blue Butter®** gel and was hemmed a drainage tube. Gel was also applied liberally on skin around the wound. (Fig. 2)

The dog was prescribed 3 days of oral antibiotics, oral anti-inflammatory, and use of **Blue Butter®** gel as topical treatment in wound care protocol.

During the examination on the day 5 the following was observed: wound healing significantly progressed, the wound is clean and positive dynamics towards the closure. Drainage intubation was removed.

During examination on the 8th day the following was observed: good wound healing, the wound is clean, moist and progressing toward the closure. Partial closure along the incision line has already occurred.

Pet owner has reported complete closure on day 11 of **Blue Butter gel** treatment that remained as the only therapeutic modality past 3 days of oral drug administration.

CONCLUSION:

1. **Blue Butter®** Gel was found to be highly effective wound healing product for daily treatment of post-operative wound with complications and healing impairment.

2. Product promoted complete closure of the wound within 11 days of application.



Figure 4. Condition of wound on day 3 of **Blue Butter** gel use in wound care protocol



Figure 5. Condition of the wound on the 5th day of **Blue Butter®** gel use in wound care protocol



Condition of wound upon first application of **Blue Butter®**

» forticept® Paw Forte™

ANTIMICROBIAL PROTECTION BALM



NDC Code(s):

72127-0708-1

Route of Administration:

Topical

Dosage Form:

Semi-solid, Balm

Size(s):

3 oz.

Active Ingredient:

Benzethonium Chloride – 0.1%,

Zinc Oxide – 5.0%

Purpose:

Skin Care

Shelf Life: 2 years

2 in 1 - Skin Protection and Treatment with natural waxes and Lemongrass Oil



SKIN/WOUND CARE & MEDICATED BARRIER OINTMENT

Paw-Forte™ is a broad-spectrum antimicrobial and barrier ointment. It provides protection from pathogens and environmental stress. It moisturizes, soothes, nourishes, and conditions the delicate skin of paws and nose. It also promotes healing of superficial wounds, abrasions, burns, and cracked chapped skin.

Paw-Forte™ helps protect paws from the damage caused by hot sand, pavement, ice and salt. When the balm is applied to the pads and between toes, it forms a protective barrier. Non-toxic, hypoallergenic formula helps soothe cracked inflamed skin and protect is from infection. Moreover, it helps treat rashes, minor burns, severely chapped skin, or other minor skin irritations. Paw-Forte™ Antimicrobial Protection Balm is a safe and effective non-toxic dual function ointment. It helps protect paws and nose from environmental stress and helps reduce risk of infection.

APPLICATION

Paw-Forte™ can be used on a regular basis for daily skin care: moisturizing, protecting, and preserving the natural barrier of the pads and nose; or as a First-Aid wound care for treatment of wounds, cracks, abrasions, and burns, as well as for topical treatment of the sites of insect bites.

Usually, paw waxes and paw creams are two very different products. Paw waxes are a coating used to simply protect the paws. Creams are the products made to moisturize and condition the pads. Both are very beneficial to use. How do you know when to use which product? Well, we made Paw-Forte™, so you don't have to choose between care and protection! promotes healing!



SIZE (OZ)	3 OZ
PRODUCT ID	FPTPF03
UPC	853559007385
UNIT DIMENSIONS (INCHES)	3.0X3.0X2.5
UNIT WEIGHT (LBS)	0,22
UNITS PER CASE	12
CASE WEIGHT (LBS)	2,68
UPC / CASE	85359007392