

### Otics & Flushes

Active Ingredients	Anti-Bacterial	Antibiofilm	Anti-Fungal	Anti-Pruritic	Dewaxing	Drying, Degreasing	Keratolytic/Keratoplastic	Skin Repair Therapy
Acetic Acid	X		X		X	X		
Boric Acid	X		X		X	X		
Ceramide Complex*				X				X
Chlorhexidine	X		X**					
Hydrocortisone				X				
Ketoconazole			X					
Propylene Glycol	X					X	X	
Salicylic Acid	X						X	
Squalane					X			
TrizEDTA®	X	X						

\* Dechra's Ceramide complex includes: Ceramide 3, Ceramide 6 II, Ceramide 1, phytosphingosine and cholesterol.  
 \*\* at >3%  
 Caution is recommended when using chlorhexidine in the ear when the status of the tympanic membrane is unknown.

### Otics & Flushes

To aid in the treatment of conditions listed with each product.

TrizEDTA® Aqueous and Crystals Flush TrizEDTA® (tromethamine, USP; disodium EDTA, USP) <i>Otitis externa, Bacterial otitis, Pseudomonas</i>	4 oz, 16 oz
KLEAROTIC Ear Cleanser 22% squalane <i>Routine cleansing, Ceruminolytic</i>	4 oz
EPIKLEAN® Ear Cleanser propylene glycol, salicylic acid <i>Routine cleansing, Drying, Swimmer's ear</i>	8 oz, 12 oz, 32 oz
TrizULTRA + KETO® Flush 0.15% ketoconazole, USP in TrizEDTA® (tromethamine, USP; disodium EDTA, USP) <i>Fungal &amp; Bacterial infections</i>	4 oz, 12 oz
TrizCHLOR® Flush 0.15% chlorhexidine, USP in TrizEDTA® (tromethamine, USP; disodium EDTA, USP) <i>Bacterial infections</i>	4 oz
MAL-A-KET® Plus TrizEDTA® Flush 0.15% ketoconazole, USP; 0.15% chlorhexidine gluconate, USP in TrizEDTA® (tromethamine, USP; disodium EDTA, USP) <i>Fungal &amp; Bacterial infections</i>	4 oz, 12 oz
MALACETIC® Otic Cleanser 2% acetic acid, 2% boric acid <i>Otitis externa, Malassezia otitis, Bacterial otitis</i>	4 oz, 8 oz, 16 oz
MALACETIC ULTRA® Otic Cleanser 1% acetic acid; 1% hydrocortisone, USP; 0.15% ketoconazole, USP; ceramide complex <i>Pruritus, Inflammation, Otitis externa, Malassezia otitis, Bacterial otitis</i>	2 oz, 8 oz

### Supplements and Treats

EICOSA3FF® SnipCaps Omega 3 Free Fatty Acid Capsules EPA 262 mg, DHA 172 mg per SMALL SnipCap EPA 515 mg, DHA 338 mg per LARGE SnipCap Omega 3 Fatty Acids as free fatty acid form and in a convenient SnipCap <i>Atopic dermatitis, Dry skin or coat, Allergies, Inflammation, Organ health</i>	SMALL <60 lb 60 ct, 120 ct LARGE >30 lb 60 ct, 120 ct
EICOSACAPS® Omega 3 & 6 Capsules EICOSACAPS® L Omega 3 & 6 Capsules <i>Dry skin or coat</i>	<40 lb, 60 ct 41-70 lb, 60 ct
EICOSADERM® Omega 3 Liquid EPA 360 mg, DHA 240 mg per 2 mL <i>Atopic dermatitis, Dry skin or coat, Allergies, Inflammation, Organ health</i>	8 oz, 32 oz
Phycox® HA Soft Chews phycocyanin, glucosamine, methylsulfonylmethane, antioxidants, hydrolyzed soy protein <i>Joint support, Hypoallergenic</i>	HA 120 ct, HA MAX 90 ct
EPITREATS® Healthy Canine Snacks dried potato product, hydrolyzed chicken liver <i>Semi-moist diet complement for dogs with skin sensitivities, Hypoallergenic</i>	8 oz
Redonyl® Ultra Soft Chews PEA-um (Ultra-micronized Palmitoylethanolamide) <i>skin support, hypoallergenic</i>	100 mg soft chews, 120 ct 200 mg soft chews, 120 ct

### Dip

LIMEPLUS® Dip 97.8% sulfurated lime solution <i>Dermatophytosis, Demodex, Sarcoptic mange</i>	4 oz, 16 oz, Gallon
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### Shampoos, Sprays & Wipes

Active Ingredients	Anti-Pruritic	Anti-Bacterial	Antibiofilm	Anti-Fungal	Anti-Seborrheic/Keratolytic/Keratoplastic	Drying, Degreasing	Follicular Flushing	Skin Repair Therapy
Acetic Acid		X		X		X		
Boric Acid		X		X		X		
Benzoyl Peroxide	X	X			X	X	X	
Ceramide Complex*	X							X
Chlorhexidine		X		X**				
Hydrolyzed Oat Protein	X							
EFA's	X							X
Hydrocortisone	X							
Ketoconazole				X				
Miconazole		X		X				
Salicylic Acid		X			X			
Sulfur		X		X	X	X		
TrizEDTA®		X	X					

\* Dechra's Ceramide complex includes: Ceramide 3, Ceramide 6 II, Ceramide 1, phytosphingosine and cholesterol.  
 \*\* at >3%

### Shampoos, Sprays, Mousses, & Wipes

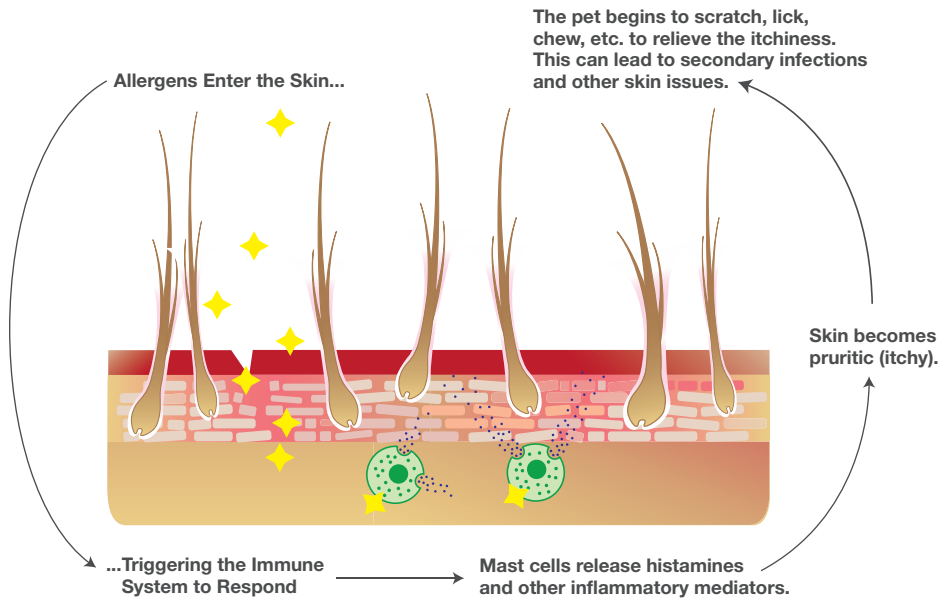
To aid in the treatment of conditions listed with each product.

DERMALLAY™ Oatmeal Shampoo DERMALLAY™ Oatmeal Spray Conditioner hydrolyzed oat protein, safflower seed oil, ceramide complex <i>Mild pruritus, Itchy, dry, sensitive skin</i>	12 oz, Gallon 8 oz, 12 oz, Gallon
DERMALYTE® Shampoo safflower seed oil, sodium lactate, glycerine, ceramide complex <i>For normal, sensitive or dry skin, Frequent bathing, Hypoallergenic</i>	12 oz, Gallon
HYPOALLERGENIC Cream Rinse glycerine, safflower seed oil, ceramide complex <i>For sensitive or dry skin, Frequent bathing, Hypoallergenic</i>	8 oz
MALACETIC® Shampoo MALACETIC® Spray Conditioner MALACETIC® Wet Wipes 2% acetic acid & 2% boric acid <i>Mild fungal &amp; Bacterial infections, Mild pyoderma &amp; Malassezia</i>	12 oz, 16 oz, Gallon 8 oz, 16 oz 25 ct, 100 ct
DERMABENS® Shampoo 2.5% benzoyl peroxide, USP; 1% salicylic acid, USP; 1% sulfur; ceramide complex <i>Deep pyoderma &amp; seborrhea oleosa, complements Demodex therapy</i>	12 oz, Gallon
MALACETIC ULTRA® Shampoo MALACETIC ULTRA® Spray Conditioner 1% acetic acid; 2% boric acid; 1% hydrocortisone, USP; 0.15% ketoconazole, USP; ceramide complex <i>Fungal &amp; bacterial infections, Pyoderma &amp; Malassezia, Inflammation, Pruritus</i>	8 oz 8 oz
MALACETIC® HC Wipes 1% hydrocortisone, USP; 1% acetic acid; 1% boric acid; ceramide complex <i>Moderate to severe pruritus, Inflammation</i>	25 ct
MICONAHEX+Triz® Shampoo MICONAHEX+Triz® Spray Conditioner MICONAHEX+Triz® Mousse MICONAHEX+Triz® Wipes 2% miconazole nitrate, USP; 2% chlorhexidine gluconate, USP in TrizEDTA® (tromethamine, USP; disodium EDTA, USP), ceramide complex <i>Mild, moderate, and/or severe fungal &amp; bacterial infections, Recurrent infections secondary to atopy and barrier defects</i>	8 oz, 16 oz, Gallon 8 oz, 16 oz, 32 oz 7.1 oz 50 ct
MAL-A-KET® Shampoo MAL-A-KET® Wipes 2% chlorhexidine gluconate, USP; 1% ketoconazole, USP; 2% acetic acid <i>Severe fungal &amp; bacterial infections</i>	8 oz, Gallon 50 ct
MAL-A-KET® Plus TrizEDTA® Spray Conditioner 2% chlorhexidine gluconate, USP; 1% ketoconazole, USP in TrizEDTA® (tromethamine, USP; disodium EDTA, USP) <i>Fungal &amp; bacterial infections</i>	8 oz
TrizCHLOR® 4 Shampoo TrizCHLOR® 4 Spray Conditioner TrizCHLOR® 4 Mousse TrizCHLOR® 4 Wipes 4% chlorhexidine gluconate, USP in TrizEDTA® (tromethamine, USP; disodium EDTA, USP) <i>Fungal &amp; bacterial infections, Pyoderma</i>	8 oz, 16 oz, Gallon 8 oz, 16 oz 7.1 oz 50 ct
TrizCHLOR® 4 HC Shampoo TrizCHLOR® 4 HC Spray Conditioner 4% chlorhexidine gluconate, USP; 1% hydrocortisone, USP in TrizEDTA® (tromethamine, USP; disodium EDTA, USP) <i>Fungal &amp; bacterial infections, Pyoderma, Pruritus, Inflammation</i>	8 oz 8 oz

Label Color Code Guide:

General Cleansing/Antipruritic	Antimicrobial/Antiseborrheic	Antibacterial/Antifungal
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### Allergies and the Atopic Patient

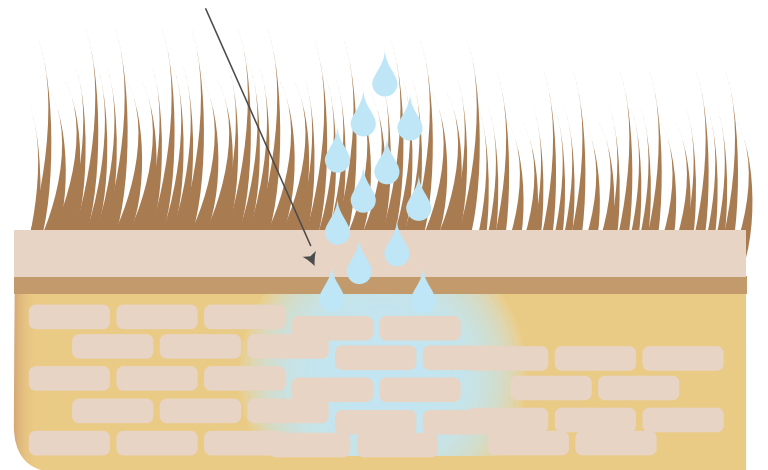


### Ceramides

Aid in moisturizing, repairing, and restoring dry, damaged skin

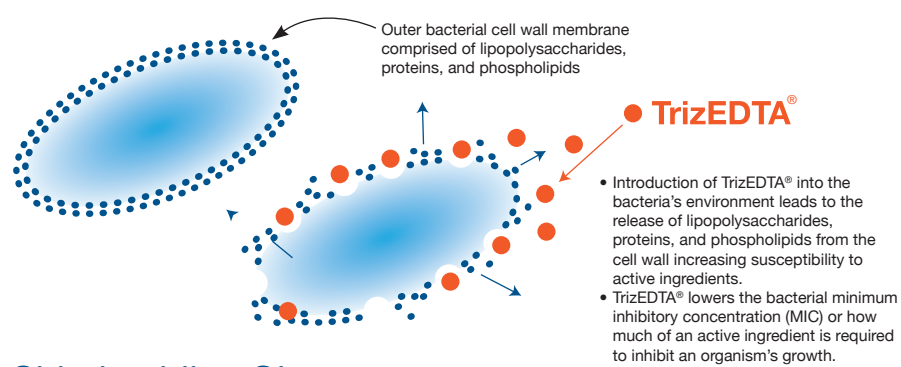
- Ceramides play an essential role in the structure and maintenance of the barrier function of the skin. Proper barrier function is necessary to prevent water and the entrance of allergens.
- Findings suggest that decreased amounts of ceramides in the skin of dogs with atopic dermatitis may be involved in the impaired barrier function of their skin.<sup>5</sup>
- Formulations containing lipids identical to those in skin and, in particular, some ceramide supplementation may improve skin conditions caused by impaired barrier function.
- The ceramide complex in Dechra's products includes Ceramide 3, Ceramide 6 II, and Ceramide 1. In addition, it also includes phytosphingosine and cholesterol.

Ceramides help restore moisture in the skin and aid in rebuilding the epidermal barrier.



### TrizEDTA® Technology<sup>1</sup>

- Patented Tromethamine, USP and Disodium EDTA, USP (U.S. Patent 6,538,155)
- Effective against Gram-negative bacteria
- Chelates minerals in bacterial cell walls thereby increasing their susceptibility to active ingredients in topical products
- Alkalinizing
- Antibiofilm agent<sup>2</sup>
- Non-ototoxic
- Topical use for dogs, cats, and horses



### Chlorhexidine Gluconate

- Generally used as adjunctive therapy for bacterial skin infections caused by Gram-positive and Gram-negative bacteria<sup>1</sup>
- Considered to have residual effects and can remain active on skin after rinsing<sup>1</sup>
- Bacteria do not tend to develop resistance towards chlorhexidine gluconate
- Antifungal properties in concentrations greater than 3%

### Miconazole

- A synthetic antifungal used to prevent and treat fungal skin infections
- Activity against some Gram-positive bacteria, including methicillin-sensitive and -resistant *Staphylococci*<sup>3</sup>

### Ketoconazole

A synthetic antifungal drug used to prevent and treat fungal skin infections

### Acetic & Boric Acid Formulation

- Cleansing, drying, acidifying, whitening
- Degreasing, deodorizing
- Balances skin surface pH making it unfavorable for the overgrowth of fungus/yeast
- Ceruminolytic, keratolytic, keratoplastic, and astringent actions<sup>4</sup>

### Hydrocortisone

Provides anti-pruritic and anti-inflammatory properties



## DERMATOLOGY PRODUCT GUIDE



GENERAL CLEANSING/ANTIPRURITIC

ANTIBACTERIAL/ANTIFUNGAL

ANTIMICROBIAL/ANTISEBORRHEIC

NUTRACEUTICAL SUPPORT FOR SKIN HEALTH

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<sup>1</sup> Koch, S.N. (2012). Canine and Feline Dermatology Drug Handbook. Ames: Wiley-Blackwell

<sup>2</sup> Finnegan, S, Percival, S.L. EDTA: An Antimicrobial and Antibiofilm Agent for Use in Wound Care. *Advances in Wound Care* 2015; Jul 1 4(7): 415-421.

<sup>3</sup> Kirk's Current Veterinary Therapy XV. John D. Bonagura, David C. Twedt Elsevier Health Sciences, 2013

<sup>4</sup> Susceptibility of Selected Otitis Externa Pathogens to Individual and Mixtures of Acetic and Boric Acids. Benson CE - 4th Proceedings of AAVD/ACVD meeting, 1998. Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania.

<sup>5</sup> Characterization and quantification of ceramides in the nonlesional skin of canine patients with atopic dermatitis compared with controls. Lisa V. Reiter, Sheila M. F. Torres, Philip W. Wertz, *Veterinary Dermatology*, Volume 20, Issue 4, pages 260-266, August 2009