Plumb's Drug Handouts

Enzymes, Topical (Lactoperoxidase, Lysozyme, Lactoferrin)

(*lak-toe-**pear**-ox-ih-dase, **lie**-suh-zyme, lak-toe-**feh**-ruhn*)

Key Information

- Used to support wound healing and reduce skin irritation and itching
- A variety of products are available. Use as directed by your veterinarian.
- Avoid contact with your animal's eyes.
- Avoid letting animals lick or groom the treated area 20 to 30 minutes after application.
- Usually well tolerated, but skin irritation is possible.

Note: The purpose of this information sheet is to answer commonly asked questions. It does not contain all available information for this medication and is not a substitute for medical advice provided by your veterinary healthcare team.

Description	• Topical agent with antibacterial, antifungal, and antiviral properties • Available as topical sprays, creams, shampoos, and conditioners - Some products also contain a steroid. Only use products recommended by your veterinarian.
Other common names	*Zymox*
Uses	Topical enzyme products have not been approved by the FDA. Labeled uses vary between products but may include healing support for wounds or soothing skin inflammation and itching.
Before this medication is given	No medication is 100% safe in all patients. Discuss with your veterinarian: • Any medications or supplements your animal is taking • Any conditions or diseases your animal currently has or has had in the past • Any side effects your animal has had to medications in the past • The risks of using topical enzymes if your animal is pregnant or nursing

Warnings for animals	• Do **not** use:
	  - In animals that are allergic to any of the product ingredients
	  - On deep wounds or cuts
	• These products have not been evaluated by the FDA for safety or efficacy. Only use the specific products recommended by your veterinarian.
	• Certain medications are not allowed in some animal competitions. Check rules and regulations when your animal is taking a medication.

Warnings for humans	Wash your hands after handling.
How do I give this medication?	• Use as instructed on the product label or as directed by your veterinarian. • Avoid touching the tube or bottle to your animal to prevent contamination of the product. • Avoid contact with eyes. • Avoid letting animals lick or groom the treated area 20 to 30 minutes after application.
Side effects	Topical enzymes are typically well tolerated, but skin irritation is possible. *Contact your veterinarian if you have any concerns about possible side effects.*
How will I know it's working?	Skin irritation should start to improve after a few applications. *Contact your veterinary clinic if your animal's signs worsen or do not improve.*
How long will the medication effects last?	Topical enzymes will stop working within 24 hours of the last application.

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How long do I give it for?	Topical enzymes can be used for different lengths of time. Use for as long as your veterinarian tells you.
Overdose	Overdoses are unlikely, but side effects can occur if topical enzyme products are eaten. If this happens, contact your veterinarian or an animal-specific poison control center for further advice (consultation fee applies): • **ASPCA Animal Poison Control Center**: (888) 426-4435 • **Pet Poison Helpline**: (855) 764-7661 *Have the product or label with you if possible.*
Missed dose	If you miss a dose, apply when you remember and return to the regular dosing schedule.
Storage	• Store in the original container at room temperature. • Close the product securely after each use. • Keep out of reach of children and animals.
Disposal	Do **not** flush these products down the toilet or wash down the sink. Options for disposing of unused or expired medications include: • Drug take-back sites: This is preferred whenever possible. To find a site near you, contact your local law enforcement or waste management authorities. • Home disposal: Mix with coffee grounds or kitty litter, seal in a plastic bag, and throw away in the trash.
Questions?	Talk to your veterinarian.

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