



PYODERM

Your Cutaneous Infections Partner



Medicated preparation for the topical treatment of Cutaneous infections

PYODERM

An effective and versatile topical shampoo to aid in the treatment of Cutaneous infections

A REFERENCE ANTIMICROBIAL AND ANTIFUNGAL MOLECULE:

CHLORHEXIDINE DIGLUCONATE

- Used in both human and veterinary medicine^{1, 2}
- Has been compared to other antimicrobial shampoos³

FORMULATED AT THE IDEAL CONCENTRATION

3%

- Particularly for *Malassezia*, the ideal concentration is 3 %⁶ for strong and rapid action

TRIAL⁴

ROYAL VETERINARY
COLLEGE OF LONDON

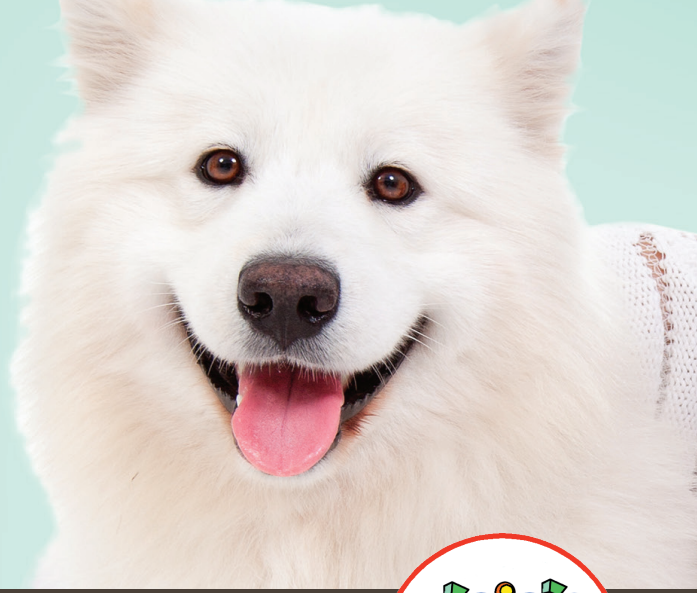
| dilution/% CHLX | Time to microbial elimination (minutes) | | | | | |
|-----------------|---|--------------|----------------------|----------|-------------------------|----------|
| | <i>S. intermedius</i> | | <i>P. aeruginosa</i> | | <i>M. pachydermatis</i> | |
| | 1/5 | 1/25 | 1/5 | 1/25 | 1/5 | 1/25 |
| 4 | <1 | <1 | 4 | 16 | 16 | >30 |
| 3 | <1 | <1 | 8 | 8 | 8 | 8 |
| 2,5 | 8 | >30 | >30 | >30 | >30 | >30 |
| 2 | <1 | 8 | 30 | 30 | >30 | >30 |



"It is interesting to note that the 3 % formulation performed better than the 4 % product at both dilutions. The 2.5 % was consistently less efficient. The observation that the efficacy could not always be ranked according to the concentration suggest that the formulation is an important factor"

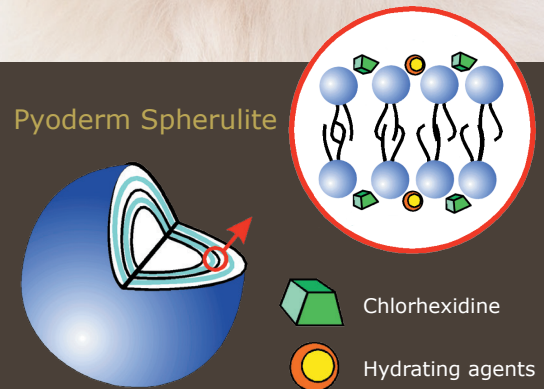
As David Lloyd concludes

Benefitting from Spherulite technology



SPECIFICALLY DESIGNED FOR SKIN PENETRATION

- Formulated as a non-ionic Spherulite
- Non-ionic Spherulites penetrate deeper



FOR PROVEN PENETRATION WHERE THE ACTIVES ARE NEEDED

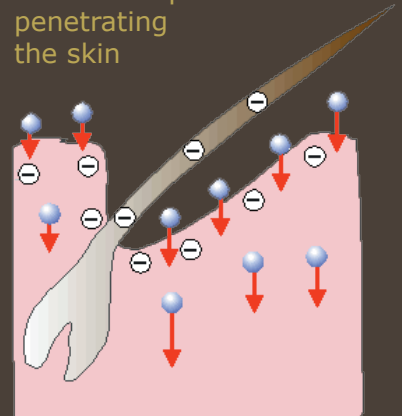
STUDY

of bio-distribution of ¹⁴C labelled non-ionic Spherulites in skin biopsies in dogs

- Skin biopsies of healthy dogs
- Solution of ¹⁴C labelled non-ionic Spherulites applied on the biopsies
- Contact for 30 minutes
- Rinsed, dried in open air, frozen for cryomicrotomy

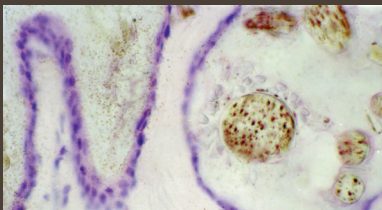
Microautoradiography carried out, with presence of radioactivity materialised by superposition of dark grains on the histologic structures

Non-ionic Spherulites penetrating the skin



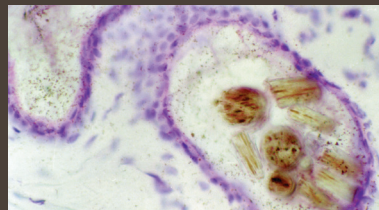
OBSERVATIONS

at 500x magnification



SLIDE 1

Non-encapsulated: Radioactivity on the surface layers, no radioactivity in the hair follicles

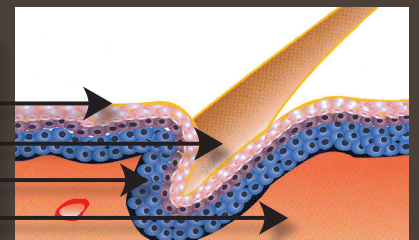


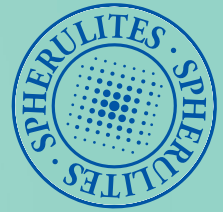
SLIDE 2

Presence of radioactivity in the outer and inner root sheaths. Note the greater accumulation of radioactivity in the sebaceous gland

PYODERM'S ANIONIC SPHERULITE CONCENTRATION IN TARGET AREAS TO SUPPORT THE SYSTEMIC TREATMENT

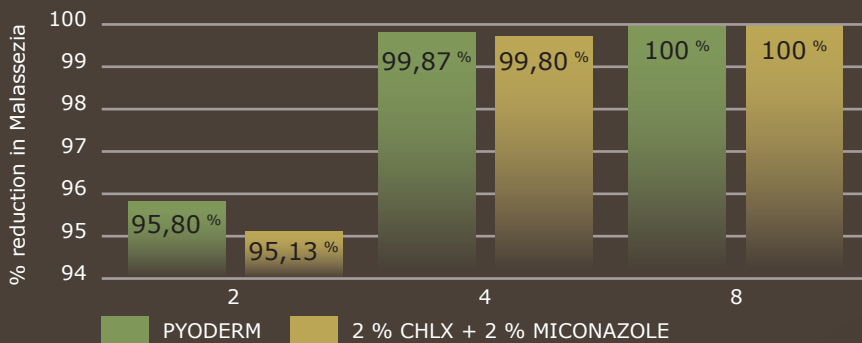
| Type of | Presence of the pathogens | Pyoderm's presence |
|-------------|--------------------------------|--------------------|
| Superficial | Epidermidis superficial layers | Yes ● |
| | Hair follicle | Yes ● |
| Deep | Epidermidis deep layers | Yes ● |
| | Dermis | Yes ● |





Antifungal properties comparable to dedicated antifungals like Miconazole on Malassezia

PYODERM VS. MICONAZOLE⁵



PYODERM IN COMBINATION WITH OTHER THERAPIES, CAN SUCCESSFULLY AID IN THE TREATMENT OF:

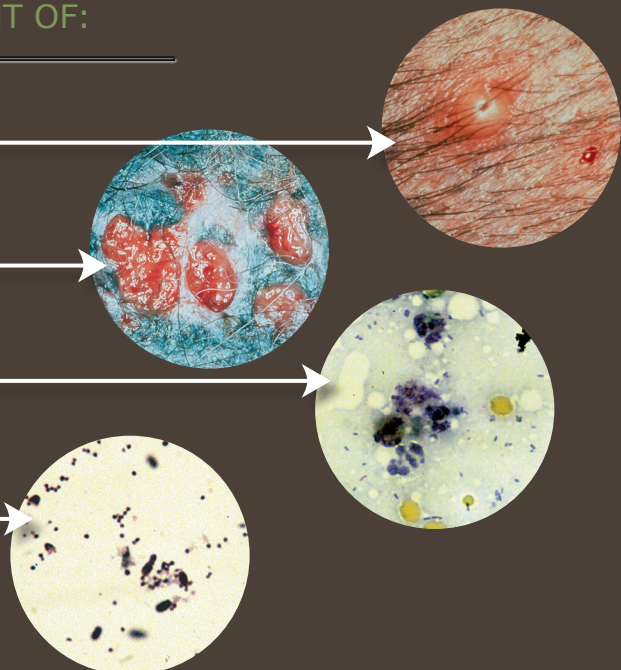
➤ Superficial pyoderma

➤ Deep pyoderma

➤ Bacterial overgrowth (Staph. proliferation)

➤ Malassezia dermatitis

➤ Malassezia proliferation





PYODERM

Your Cutaneous infections Partner thanks to its outstanding qualities

Active ingredient
Chlorhexidine digluconate

Ideal concentration of
3%

Non-ionic Spherulites, allowing
deep skin penetration

AS WITH ALL VIRBAC DERMATOLOGY PREPARATIONS, PYODERM IS FORMULATED WITH MILD CLEANSING AGENTS AND IS ADJUSTED TO THE PH OF THE DOG'S SKIN



PYODERM

Your Cutaneous Infections Partner

COMPOSITION

3 % chlorhexidine
Active ingredient is in free and encapsulated form (Spherulites).

INDICATIONS

DERMATOLOGICAL PREPARATION FOR USE IN DOGS AND CATS

Used to aid in the management of skin disorders associated with bacterial and fungal infections.

WARNINGS

- Keep out of reach of children, uninformed persons and animals.
- Although this remedy has been extensively tested under a large variety of conditions, failure thereof may ensue as a result of a wide range of reasons. If this is suspected, seek veterinary advice and notify the registration holder.

PRECAUTIONS

- Avoid contact with eyes.
- If contact occurs, wash thoroughly with water.

1. Lemarie et al, (1995) Antiseptics and disinfectants in small animal practice Compendium of continuous education, 17, 1339-1551.
2. Carlotti et al, PMCAC, 31, 553-563.
3. Kwoschka et al, (1991), Prophylactic efficacy of 4 antibacterial shampoos against staph intermedius in dogs AMJVR 522, 115-118.
4. Lloyd et al, Activity of chlorhexidine shampoos in vitro against Staphylococcus intermedius, Pseudomonas aeruginosa, and Malassezia pachydermatis; The Veterinary Record, May 8, 1999.
5. Lloyd and Lamport; proceedings of the 4th World Congress of Veterinary Dermatology, San Francisco, Ca, USA, August 30 September 2, 2000.
6. Masson et al, A dose response study to determine the optimal concentration of Chlorhexidine in a shampoo base, Veterinary dermatology, 11, 2000.

Pyoderm, Chlorhexidine 3 %, Reg. No: G2963 (Act 36/1947)

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DIRECTIONS FOR USE

USE ONLY AS DIRECTED

SHAKE WELL BEFORE USE

Wet the coat of the dog and cat thoroughly with warm water. Apply sufficient PYODERM to form a rich lather. Rinse. Reapply immediately and massage into the coat. Leave on for 5 - 10 minutes. Rinse thoroughly with clean water.

Use PYODERM two or three times a week or as prescribed by the veterinarian.

PRESENTATION

White bottle with plastic screw-on applicator cap containing 200 ml liquid.