

ANTIMICROBIAL ACTIVITY OF LACTOFERRICIN PEPTIDES IN SYNERGY WITH PLANT EXTRACTS FOR THE TREATMENT OF OTITIS EXTERNA IN DOGS

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INTRODUCTION

LAS™ is a mixture of:

- Bovine lactoferricin B peptides: antimicrobial, antifungal and anti-inflammatory activity^{1,2,3}
- 2 plant extracts: anti-inflammatory and antiseborroic action

MATERIALS AND METHODS

Patients: 10 dogs

- Day 0: inclusion visit and anamnesis:

Inclusion Criteria	Exclusion Criteria
Recurrent otitis (min. 3 episodes in the last 18 months) ^{4,5}	Interfering drug therapies
Bacterial and/or <i>Malassezia</i> overgrowth ⁶	Presence of ear mites, foreign bodies, auricular neoplasias, polypoid otitis, otitis media, purulent otitis

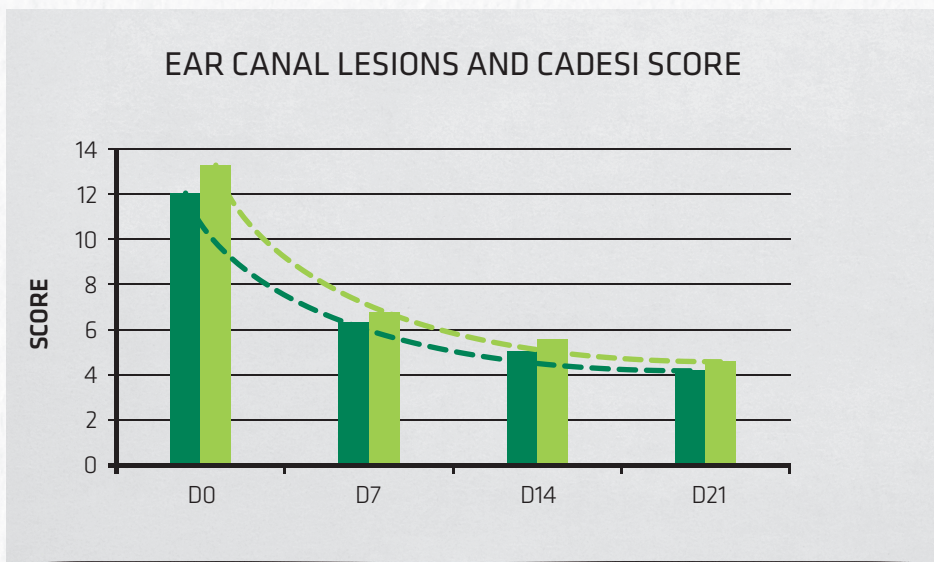
Daily topical application of the product containing LAS™ for 21 days

- Day 7, day 14, day 21: clinical examinations:
 - otoscopy,
 - evaluation with modified CADESI,
 - cytological examination of the cerumen

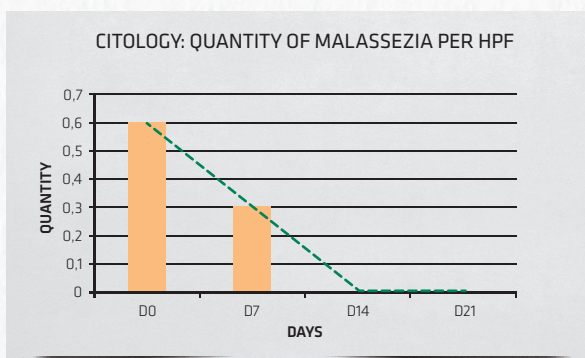
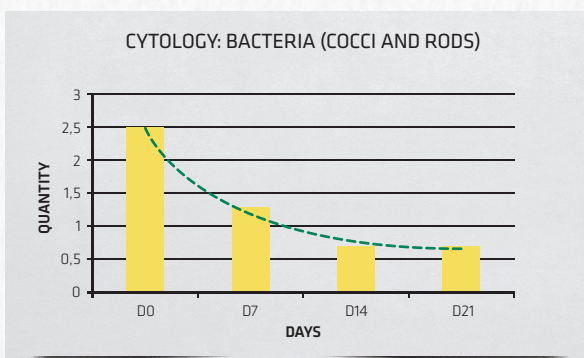


RESULTS

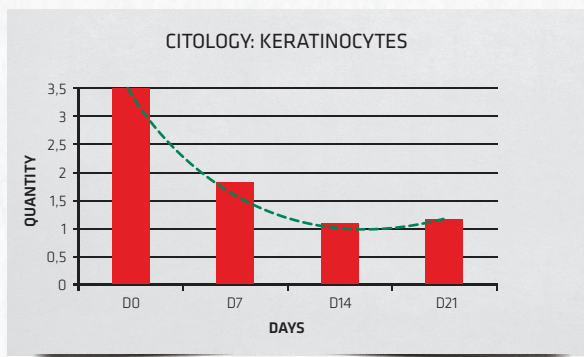
- Statistically significant reduction of both ear canal lesions and CADESI score.



- Statistically significant reduction of the number of keratinocytes, bacteria and *Malassezia* spp. at cytological examination



Mean value of bacteria and Malassezia - D0: before the treatment - D7, D14, D21: 7, 14, 21 days of treatment



Mean value of Keratinocytes - D0: before the treatment - D7, D14, D21: 7, 14, 21 days of treatment

CONCLUSION

The topical product (LAS™) was effective to treat and control bacterial and/or *Malassezia* overgrowth in dogs with erythematous and ceruminous otitis externa. It showed antibacterial and antifungal activity, in addition to ceruminolytic action. It can be considered an effective tool to control bacterial and *Malassezia* overgrowth.

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