

dermosoft® decalact

A multipurpose active ingredient

Germs on human skin

- The number of germs on human beings has been estimated at around 10^{12} (one trillion, 1 000 000 000 000).
- Most of them help to keep the skin in healthy balance




- However, some of them might cause skin disorders due to germs' growth exceeding healthy range

Antimicrobial efficacy

dermosoft decalact has a strong activity against following types of germs (G+, yeast):

- Malassezia furfur** (> causing dandruff)
- Trichophyton spp.** (> causing athlete's foot)
- Candida albicans** (> causing candidosis e.g. in intimate region)
- Propionibacterium acnes** (> causing acne phenomena)
- Corynebacterium xerosis** (> causing skin malodour)

dermosoft® decalact

Characteristics of Dermosoft® decalact									
Appearance	At 25° C viscous amber liquid characteristic odour								
INCI	Sodium Caproyl/Lauroyl Lactyl Lactate								
Recommended dosage									
rinse off	1.0 – 2.0%								
leave on	0.5 -1.0%								
pH - optimum of activity	4.0 – 7.5								
Regulatory Status GMO-status	Registered in EU, US, Japan non-GMO								
Application	Emulsions and rinse-off products								
Efficacy spectrum	<table style="width: 100%; text-align: center;"> <tr> <td>G+</td> <td>G-</td> <td>Y</td> <td>F</td> </tr> <tr> <td>●</td> <td>●</td> <td>●</td> <td>●</td> </tr> </table>	G+	G-	Y	F	●	●	●	●
G+	G-	Y	F						
●	●	●	●						
	<ul style="list-style-type: none"> ● very good ● sufficient ● insufficient 								
Natural cosmetics conformity	  								

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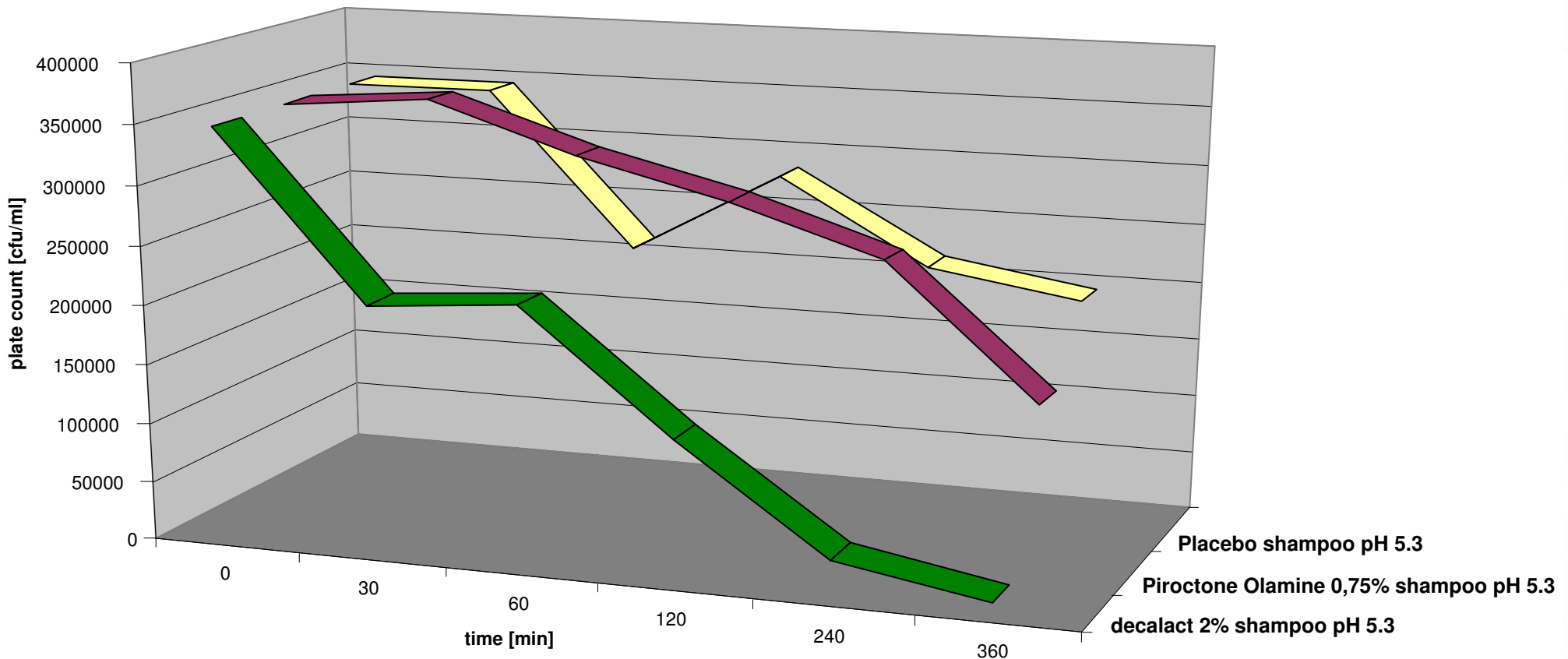
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Performance

vs

DANDRUFF

In Vitro reduction of *Malassezia furfur*: Piroctone Olamine vs dermosoft decalact – pH 5,3



REMARK:

While the optimum pH for scalp and hair is at ~5.5, Octopirox needs a pH of 7 to achieve its best performance!

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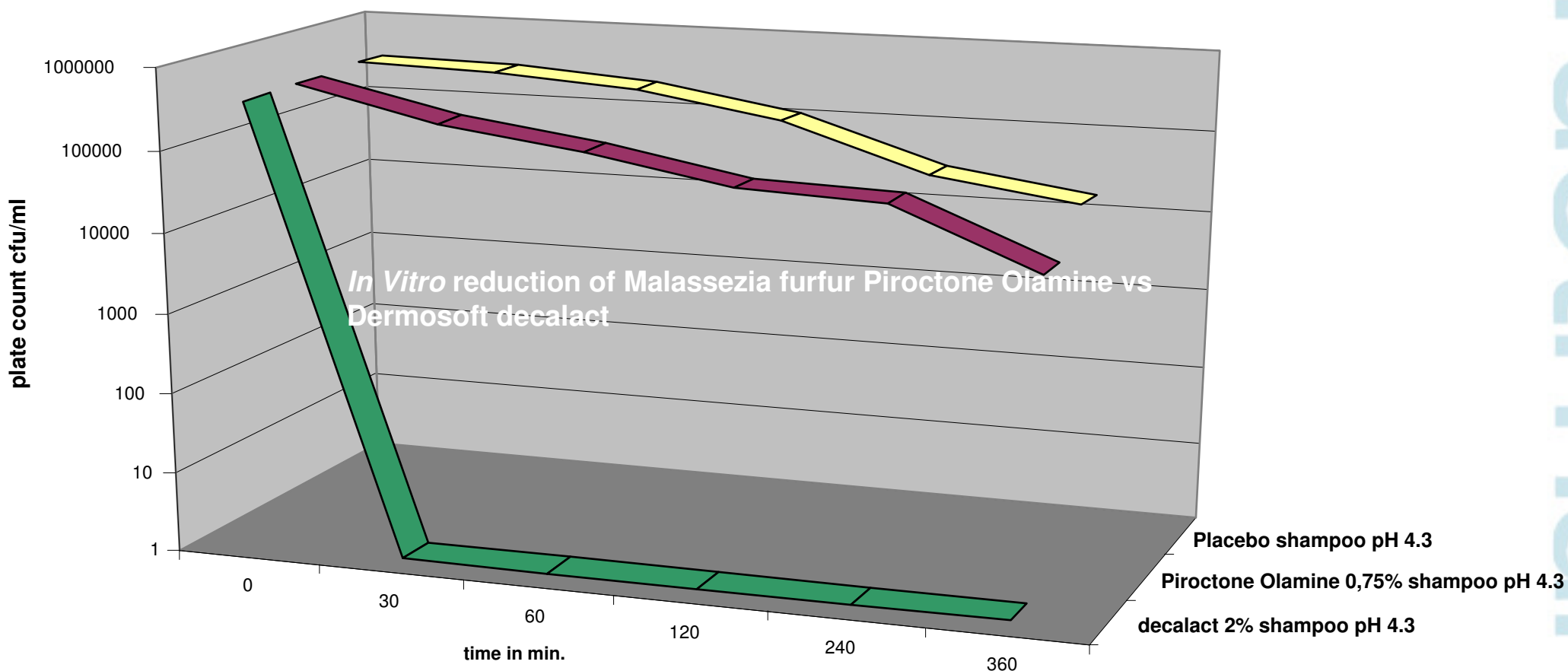
dermosoft® decalact

Performance

vs

DANDRUFF

In Vitro reduction of Malassezia furfur: Piroctone Olamine vs dermosoft decalact – pH 4.3



dermosoft® decalact outperforms Octopirox at pH 5.3 and 4.3!

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In-vivo test:

dermosoft decalact vs. Octopirox against Malassezia furfur

- Testing characteristics:**

- 3 groups of each 20 volunteers**

- Two parameters were tested:**

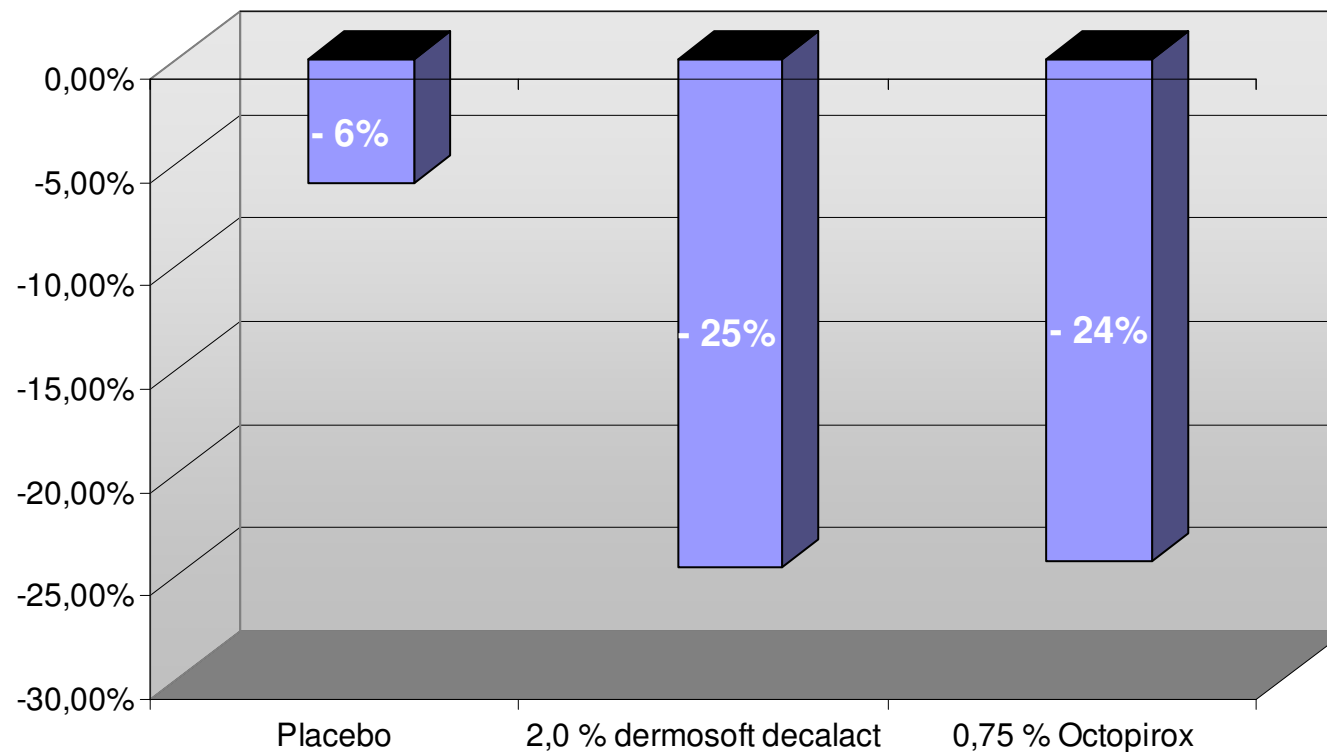
- a) Reduction of dandruff scales by weight

- b) Number of corneocytes $> 0,5 \text{ mm}^2$ adhering on a D-squame

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Step 2: In-vivo test dermosoft decalact vs. Octopirox against Malassezia furfur

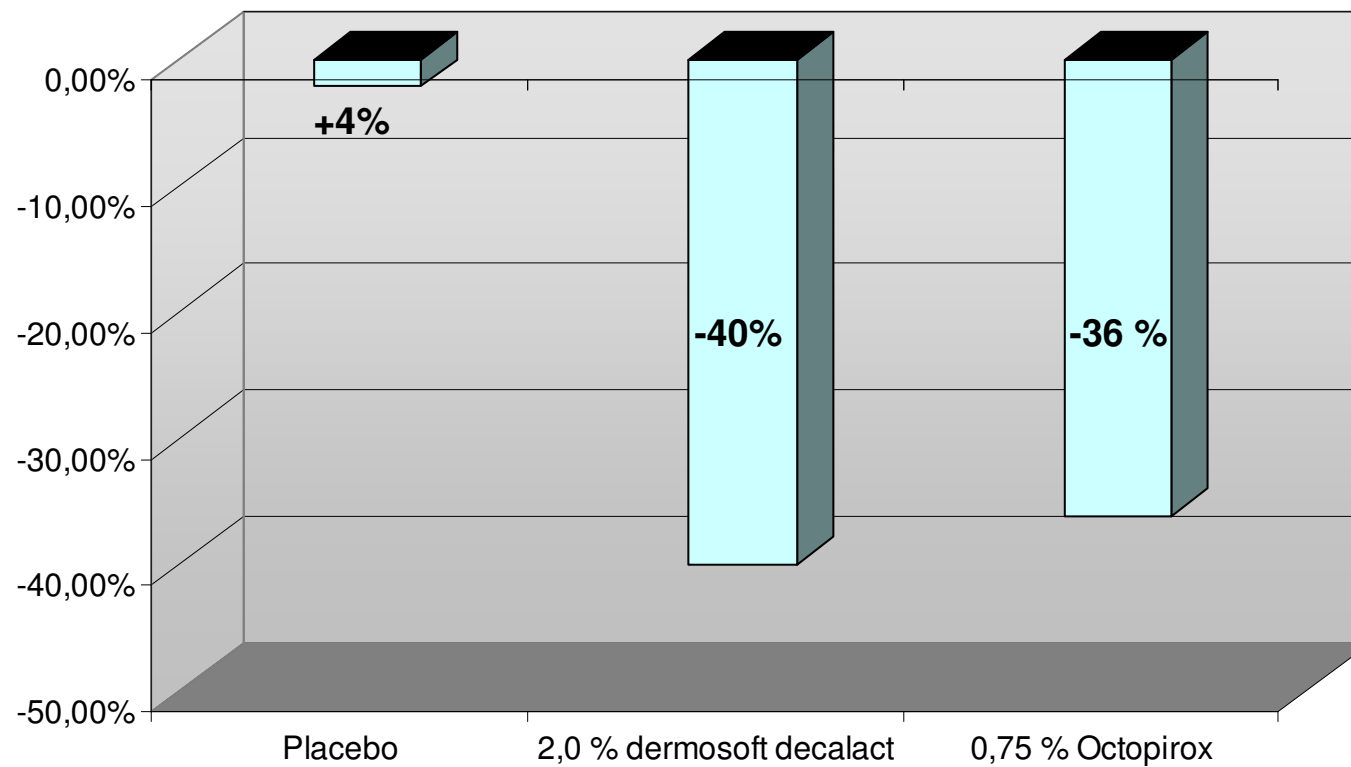
a) Reduction of dandruff scales by weight



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Step 2: In-vivo test dermosoft decalact vs. Octopirox against Malassezia furfur

b) Number of corneocytes $> 0,5 \text{ mm}^2$ adhering on a D-squame



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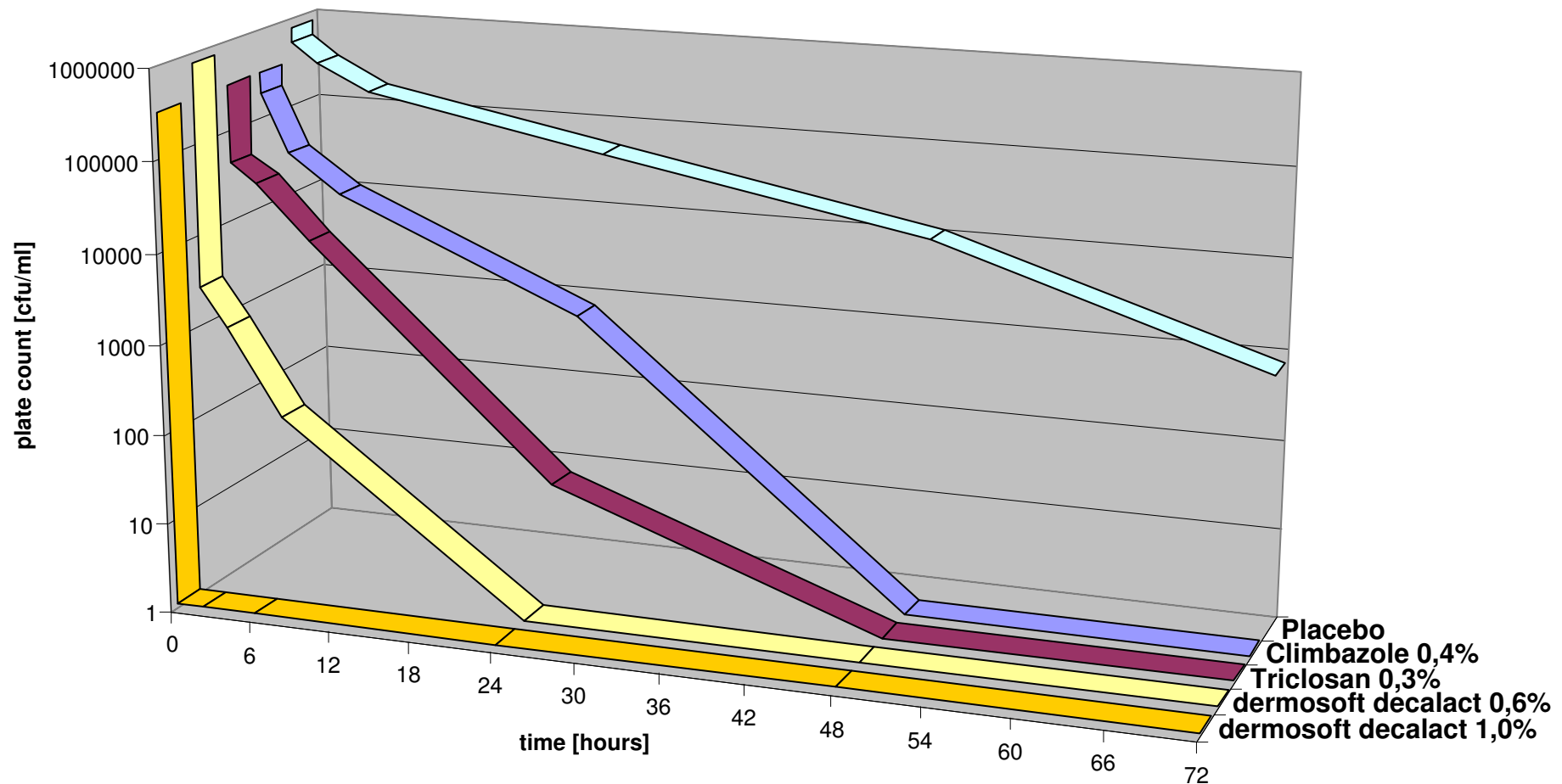
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Performance

vs

Athlete's foot

In-vitro test against *Trichophyton mentagrophytes*



drstraeetmarns

dermosoft® decalact

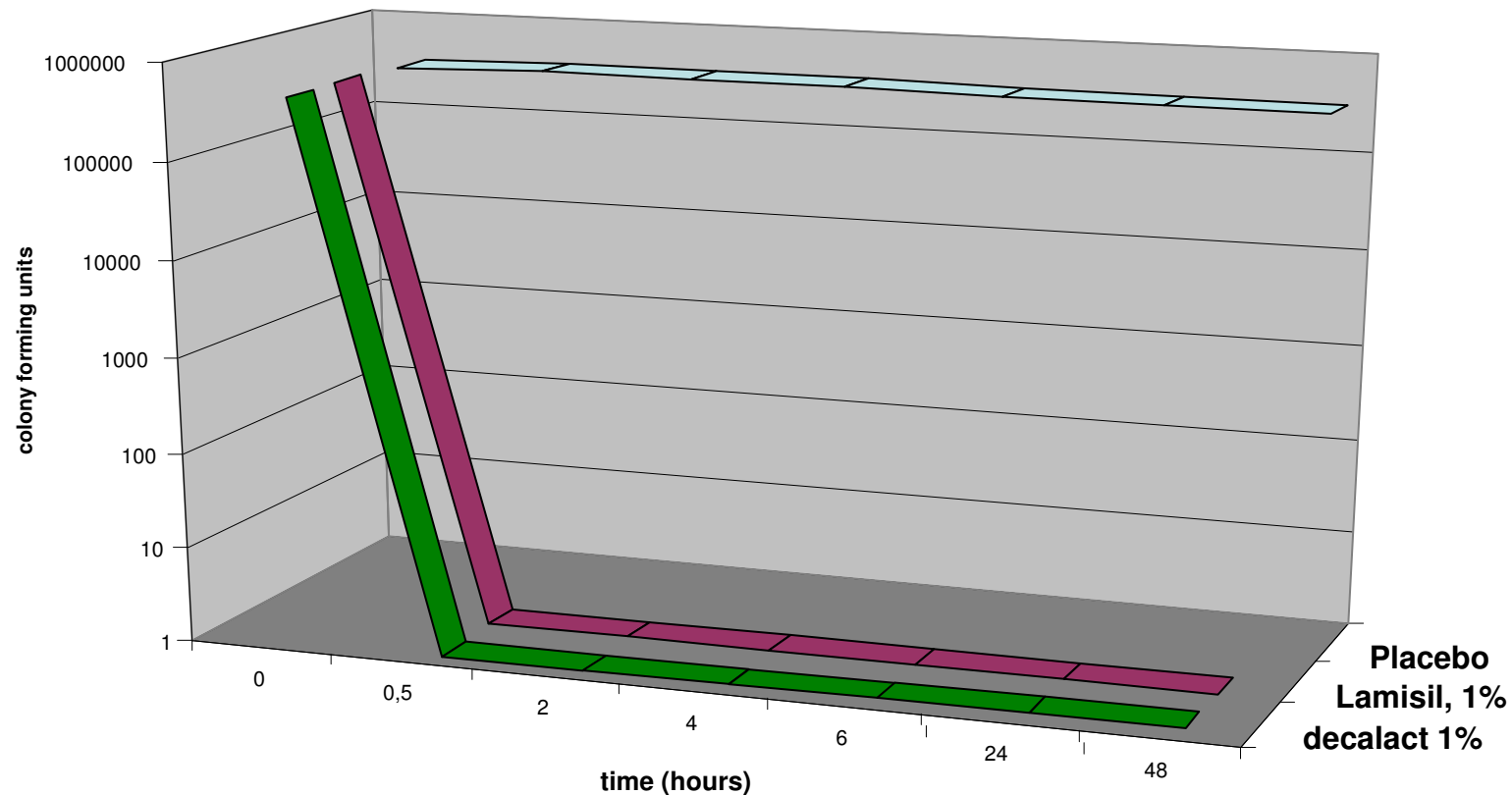
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Performance

vs

Athlete's foot

In-vitro test against Trichophyton mentagrophytes vs. Lamisil®

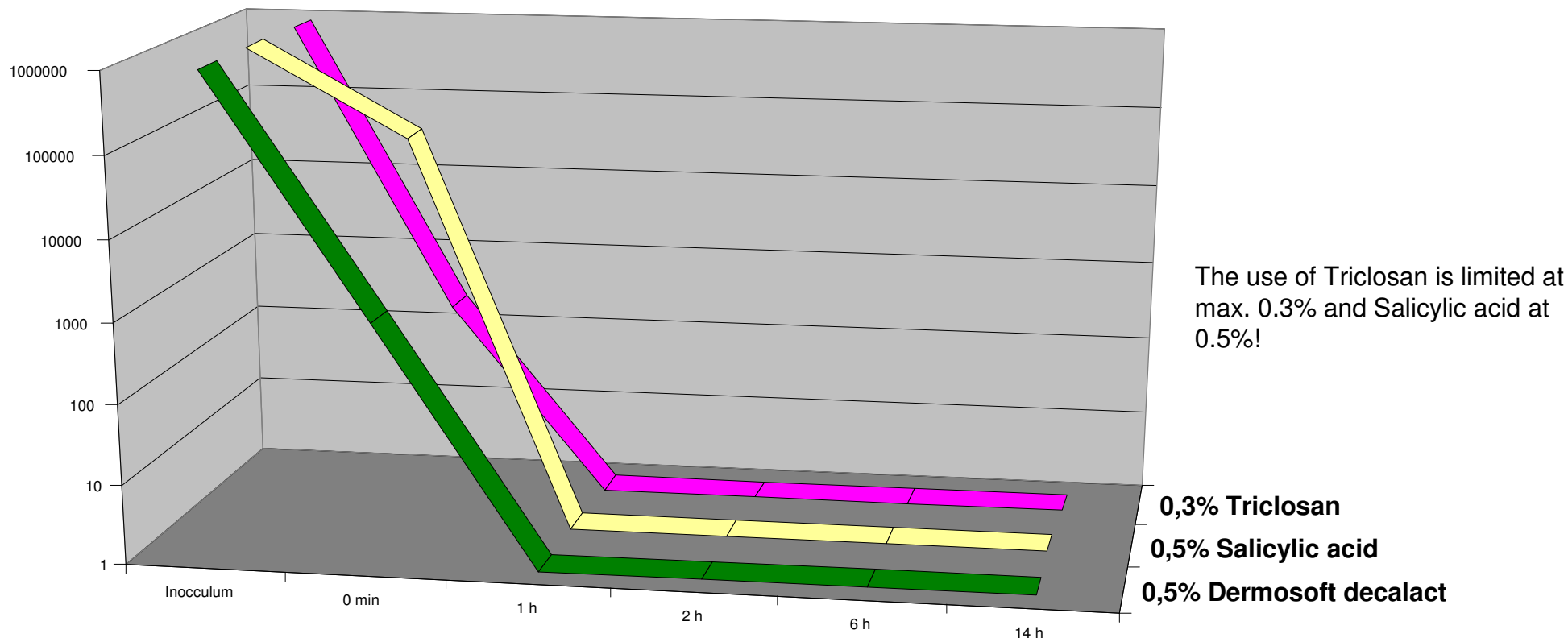


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dermosoft® decalact **Performance** vs

ACNE

In-vitro reduction of Propionibacterium Acnes



dermosoft® decalact acts as good as Triclosan & Salicylic acid

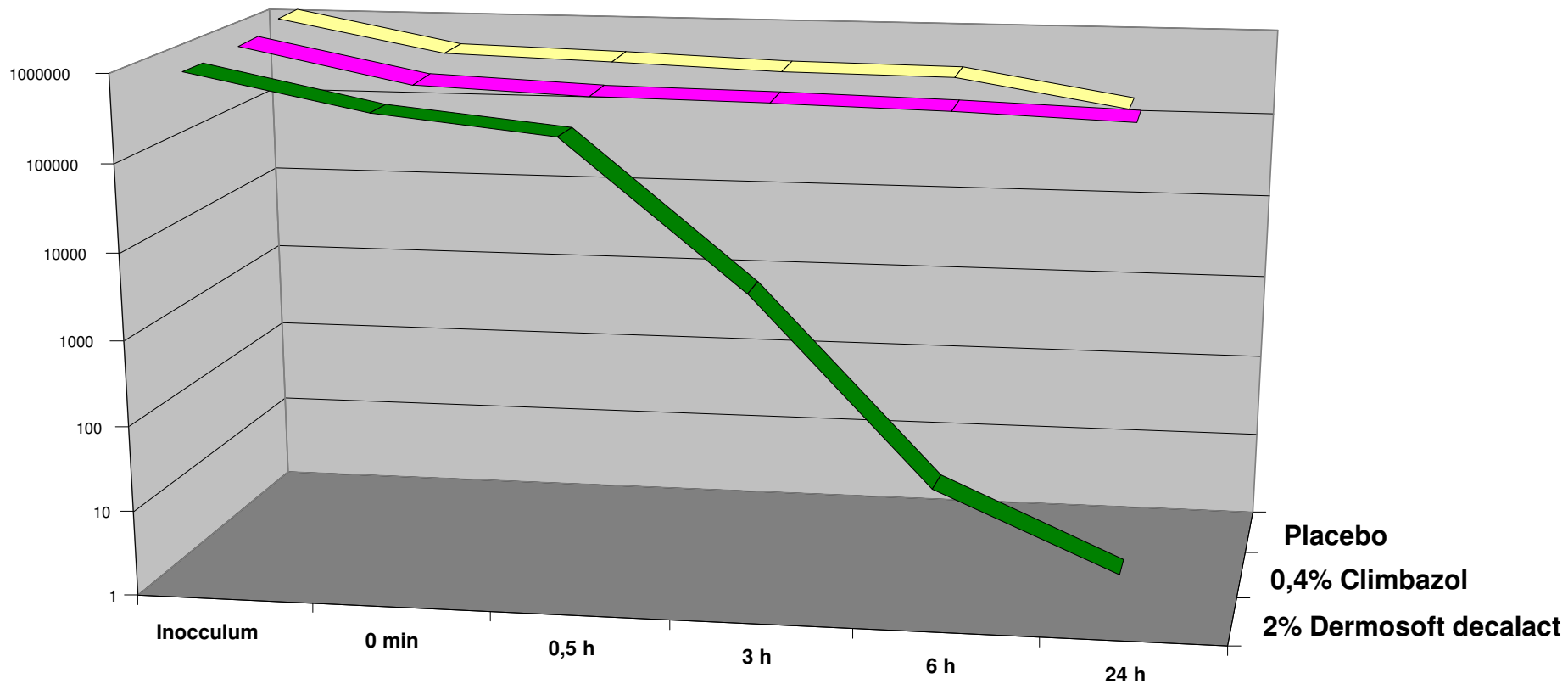
REMARK:

dermosoft® decalact has no restrictions in terms of use concentration

dermosoft® decalact

dermosoft® decalact Performance in FEMALE HYGIENE

In-vitro reduction of *Candida albicans*



dermosoft® decalact liquid

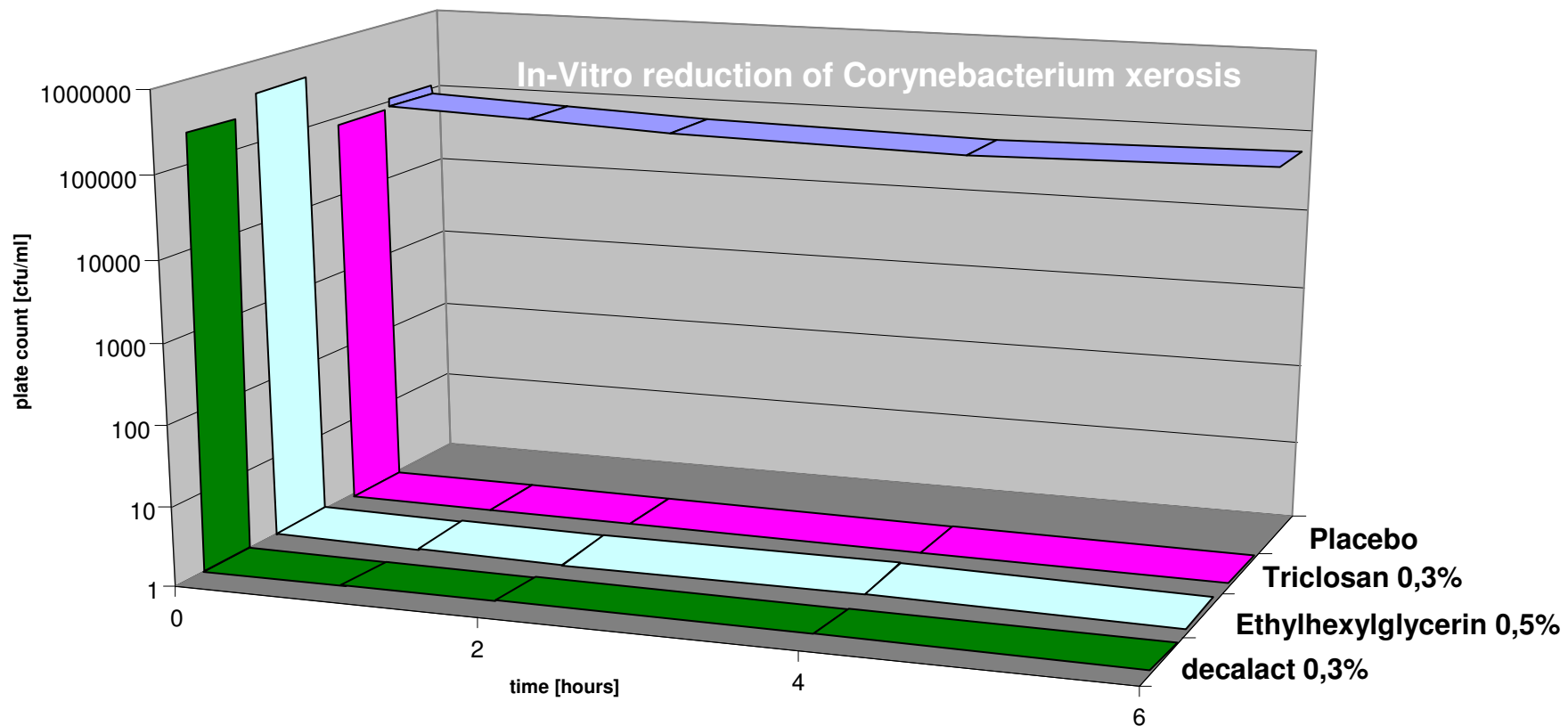
- a blend of short-chain fatty acid-lactylates and triethylcitrate
- The easy-to-handle & natural **dermosoft® decalact liquid** is ideal for rinse-off products
 - anti-dandruff-shampoos or intimate wash formulas as well as for
 - foot creams or
 - products for acne-prone skin.



INCI: Sodium Caproyl/Lauroyl Lactyl Lactate; Triethylcitrate

dermosoft® decalact deo

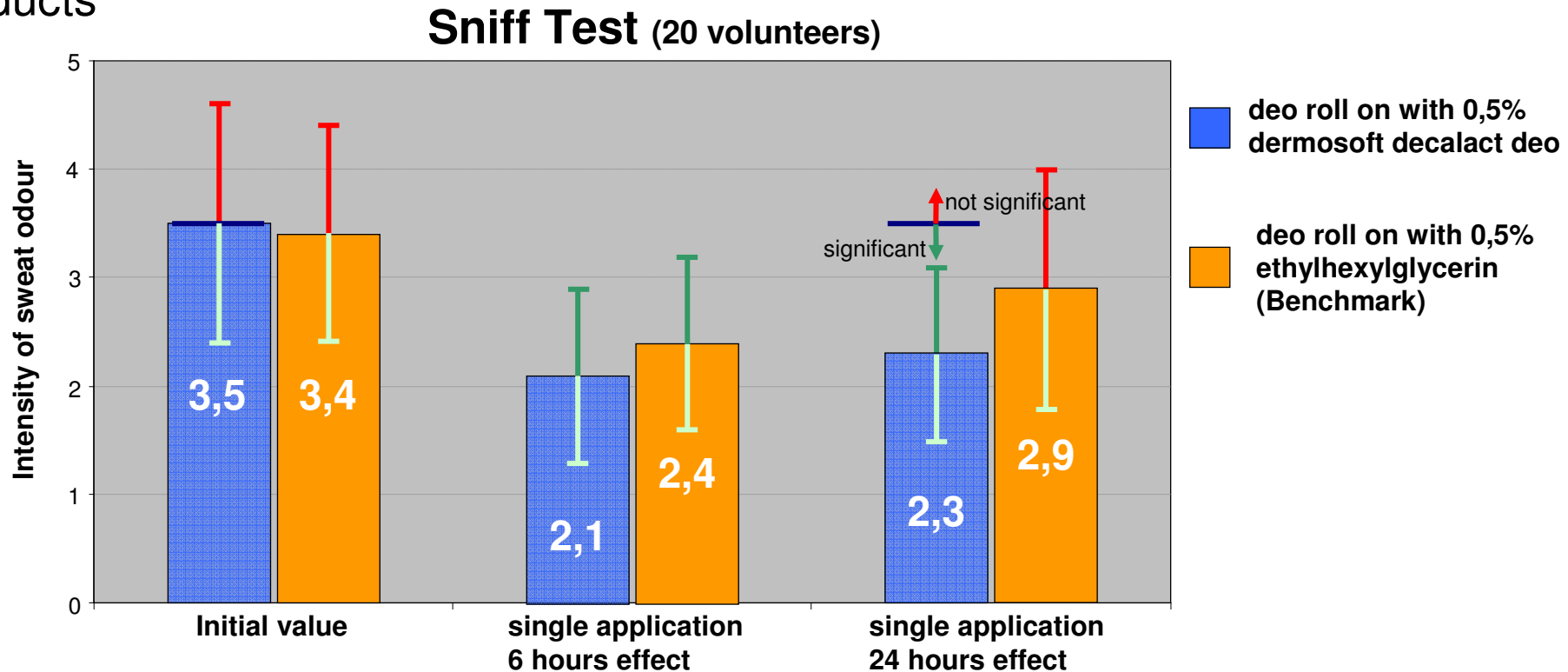
The first 100%-natural deodorant active that outperforms synthetic benchmark products



In-vitro tests show same results compared to Triclosan & Ethylhexylglycerine, a well known synthetic deodorant active

dermosoft® decalact deo

The first 100%-natural deodorant active that outperforms synthetic benchmark products

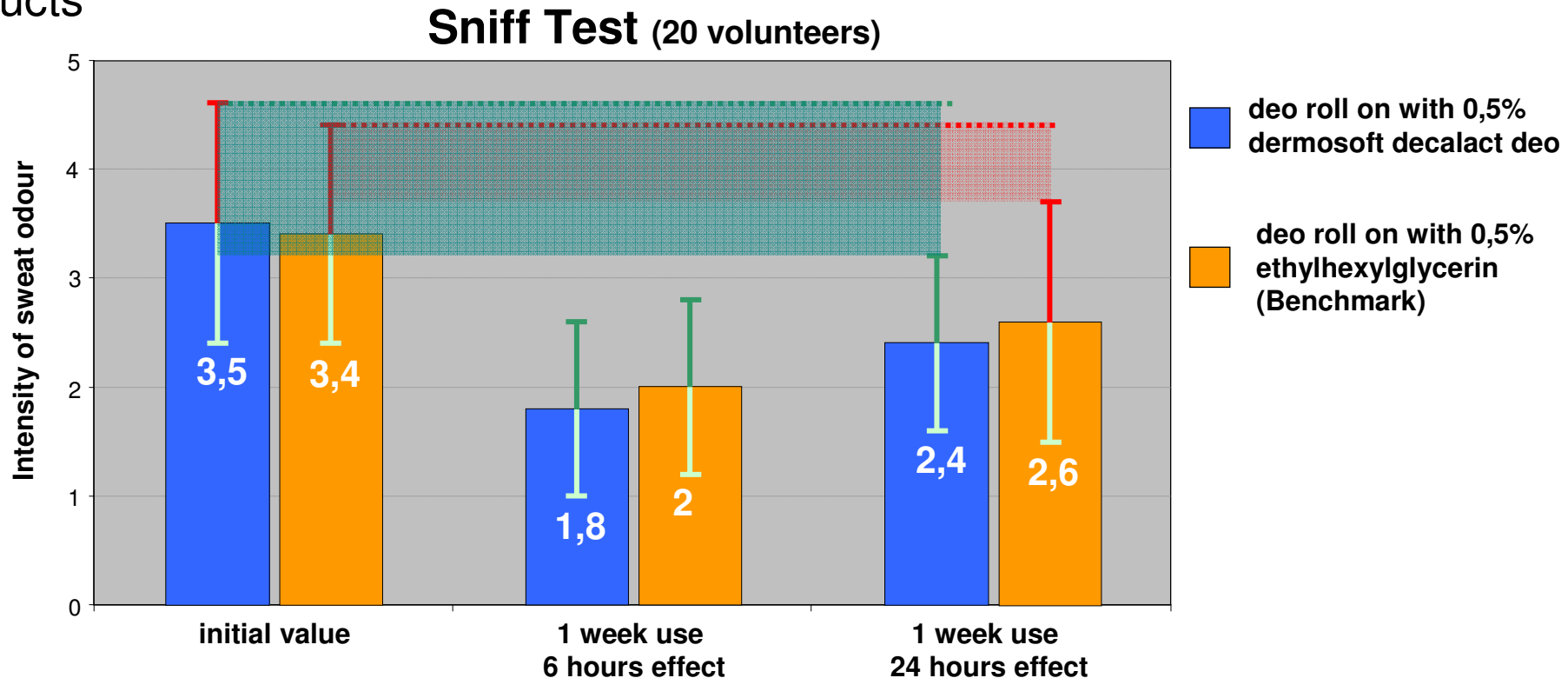


Conclusion *in-vivo* after 24 hours:

- The effect of **dermosoft® decalact** after 24 hours is superior compared to ethylhexylglycerin proven in this controlled sniff-test.
- The reduction of **dermosoft® decalact** is indicated as „significant“

dermosoft® decalact deo

The first 100%-natural deodorant active that outperforms synthetic benchmark products



Conclusion *in-vivo* after a week:

- The effect of **dermosoft® decalact** after a week is significant while ethylhexylglycerin has failed to achieve this quality.
- The reduction of **dermosoft® decalact** is indicated as „significant“

Prove the facts:

dermosoft® decalact

Multi-functional

performance

Solubility of anti-dandruff actives

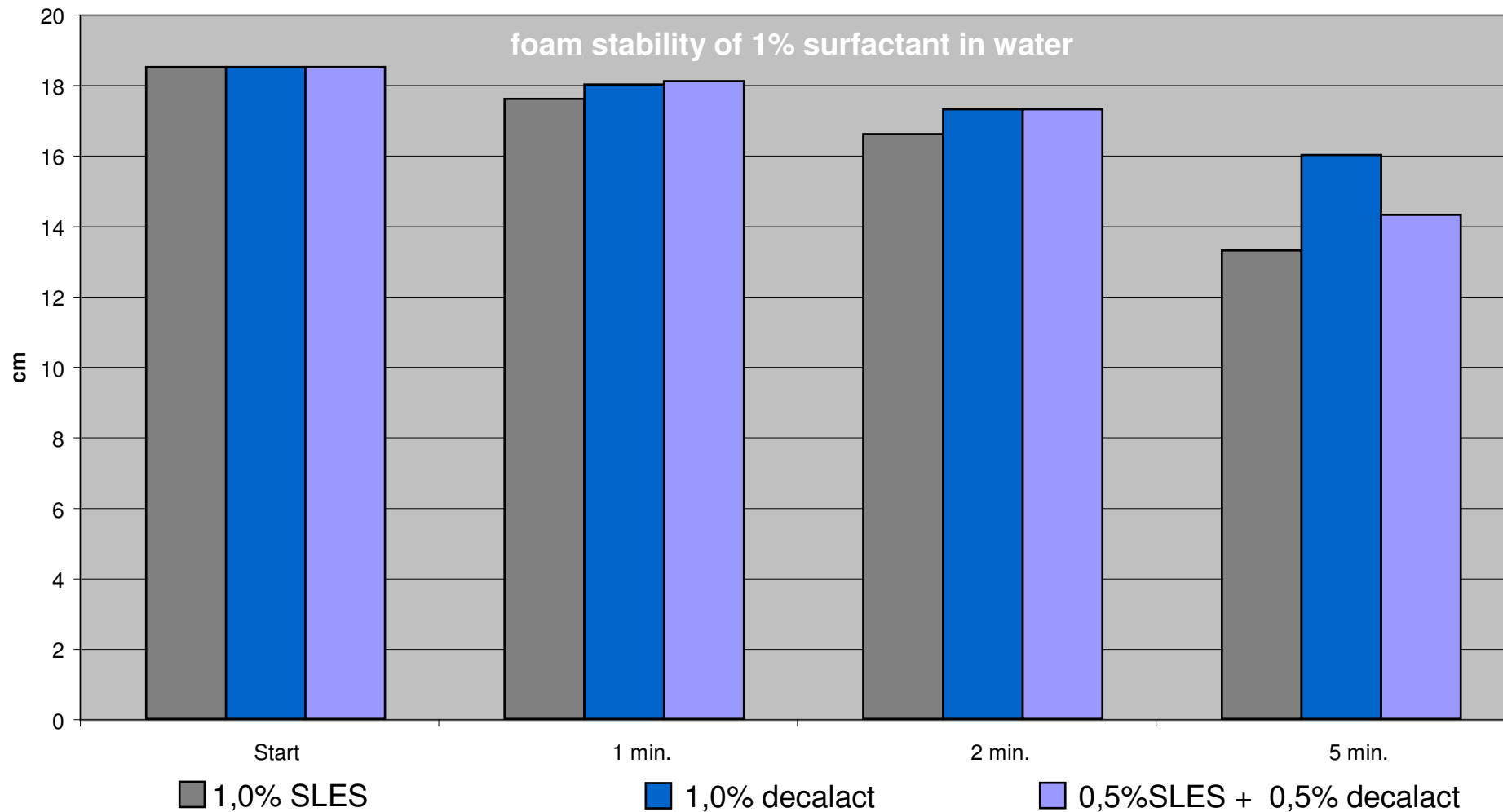
Name of active	dermosoft® decalact	Piroctone Olamine	Zn-pirithone	Selen disulfide
Solubility in water (pH 7, room temperature)	>2%	0,05%	8ppm	Insoluble

Prove the facts:

dermosoft® decalact

Multi-functional

performance



Prove the facts:

dermosoft® decalact Multi-functional performance

Remarks:

- Formulating with **dermosoft® decalact**, is quite easy
- Competitive raw materials show many limitations**
They make formulating difficult or even impossible, especially if clear, transparent tensid based product (eg. shampoos) shall be developed
- dermosoft® decalact** supports a stabile, lasting, rich foam with a soft & smooth lather.

Conclusion

dermosoft[®] decalact liquid

- strong against germs – mild to skin
 - efficient reduction of *Malassezia furfur*, *Trichophyton* spp., *Epidermophyton floccosum*, *Candida albicans*, *Propionibacterium acnes*
 - superior to Climbazole and Triclosan
 - low use concentration – cost effective
 - easy to use
 - Ecocert approved

INCI: Sodium Caproyl/Lauroyl Lactyl Lactate; Triethylcitrate

Conclusion

dermosoft[®] decalact deo

- strong deodorant effect
 - efficient reduction of Corynebacteria
 - 24-hours effect
 - low use concentration - cost effective
 - Ecocert approved

INCI: Sodium Caproyl/Lauroyl Lactyl Lactate; Triethylcitrate; Salvia Officinalis (Sage) Oil