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ANALYTICAL TEST REPORT

Antimicrobial Efficacy

28 July 2016

Sample Information

Sample ID	392-2016-00227301
Study/Report ID	S-2016-02257 SAM
Sample name	Nordic STA Hyg
Batch no.	6/6-16
Production date	6/6-16
Product type	Disinfectant
Analytical test period	13/07/2016 – 21/07/2016

The analyses have been performed by a Eurofins Product Testing approved laboratory.

Conclusion

"On the basis of the results recorded, the test material "Nordic STA Hyg", has antimicrobial activity as it causes a reduction of 100% after 2h and 24h of contact time for bacteria and yeast, a reduction of 99.83% after 2h and 100% after 24h of contact time for *Trichophyton verrucosum*."

Eurofins Product Testing A/S



Thomas Bjerring
Analytical Service Manager

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Final Report S-2016-02257 SAM

ANTIMICROBIAL EFFICACY ON Nordic STA Hyg

Contract No: I97620160436-01

Sponsor: Nordic Stald Kemi ApS
Industriparken 15, Skodborg
6630 RØDDING
DENMARK

Study Monitor: Eurofins Product Testing A/S
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Test Facility: Eurofins Biolab srl
Via B. Buozi, 2
20090 Vimodrone (MI)
Italy

Test material: Nordic STA Hyg

Study director:
(V. Tarantino)

V. Tarantino

Date:

July 25th, 2016

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Eurofins Biolab S.r.l.

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CIT005

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SUMMARY

A study was conducted to verify the preservative efficacy of test material "Nordic STA Hyg".

Different aliquots of test material were inoculated with the following microorganisms:

- *Staphylococcus aureus* MRSA ATCC 33592
- *Salmonella typhimurium* ATCC 13311
- *Escherichia coli* ATCC 8739
- *Streptococcus uberis* ATCC 19436
- *Clostridium perfringens* ATCC 13124
- *Enterococcus faecium* ATCC 6057
- *Pseudomonas aeruginosa* ATCC 9027
- *Klebsiella pneumoniae* ATCC 10031
- *Candida albicans* ATCC 10231
- *Trichophyton verrucosum* ATCC 28943

The counts were performed after the following contact times:

Bacterial strains: 0-2-24 hours

Yeasts and molds strains: 0-2-24 hours

On the basis of the results recorded, the test material "Nordic STA Hyg", **has antimicrobial** activity as it causes : a reduction of 100% after 2h and 24 h of contact time for bacteria and yeast, a reduction of 99.83% after 2h and 100% after 24h of contact time for *Trichophyton verrucosum*.

INTRODUCTION

A study was conducted on behalf of Nordic Stald Kemi ApS in order to verify the antimicrobial efficacy.

The study was performed at the Test Facility Biolab S.r.l of Vimodrone (MI) – via B. Buozzi n. 2 (Italy).

EXPERIMENTATION	STARTED	ENDED	RESEARCHER
Antimicrobial Efficacy	July 13 th , 2016	July 21 st , 2016	V. Fantato

FILING

The study program and raw data are kept in the archives of Test Facility for 10 years from the issued of the final report. A control sample of the test substance has not been kept.

At the end of the conservation period, the Sponsor may request an extension of the conservation of all or part of the materials for a further period, or their restitution. A suitable agreement shall be drafted in this case.

PROCEDURES

The procedures used in the study are documented in the Procedure Manual of Eurofins Biolab S.r.l.

Eurofins Biolab S.r.l.

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TEST ITEM

<i>Product</i>	Nordic STA Hyg
<i>Stability</i>	2 years
<i>CoA</i>	Not provided

ANALYSED SAMPLE

<i>Batch Product</i>	6/6-16
<i>Manufacturing date</i>	6/6-16
<i>Expiry date</i>	6/6-18
<i>Receiving</i>	EUITVI-78757
<i>Date</i>	June 10 th 2016
<i>#ID Product</i>	ACE-2016-00081691

NEGATIVE CONTROL

<i>Product</i>	Sodio Cloruro 0,9%
<i>Batch Product</i>	14K1401
<i>Manufacturing date</i>	Not provided
<i>Expiry date</i>	10-2017

The test item and the information concerning the test item were provided by the Sponsor.
 All data related to the test item are under the responsibility of the Sponsor and have not been verified by the test facility.

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