

Effect of Al-tahara Musk on Vagina Microbes

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Introduction

Musk is known to have been used in medicine and as a fragrance for over 5000 years. Extensively as well as recommended in Tibb menstruation cleansing.

Muscone (3-methylcyclopentadecan-1-one) is the active component in musk, which also is the cause for the odor and has medicinal properties.

This study investigates the antagonistic effect of different type natural { Abdel - Samad Al Qurashi Musk (M.Q) , Black Musk (M.A) } and chemical Musk {white Musk (M.B) } .

The types of yeast *Candida albicans* ATCC 10231, *Candida albicans* HVS and the bacteria strains include *Staphylococcus aureus*, *Bacillus subtilis*, were tested by means of disk diffusion.

Objectives

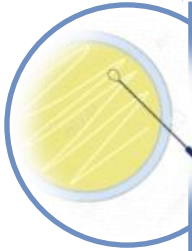
The aim of this study is to investigate the antagonistic effect of Musk as natural and chemical score on different types organisms.

Methodology



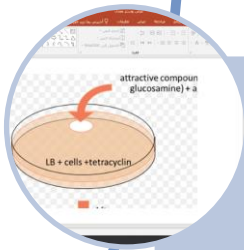
1. Media

- Mueller-Hinton Agar (MHA) for bacteria
- Sabouraud dextrose Agar for yeast (SDA)



2. Experimental Study In vitro

Place a sterile cotton swab in the microbes subculture .
Streaked in over the surface plate .



3. Disk diffusion method

Place disks containing the following musk in center plate.



















4. Incubation

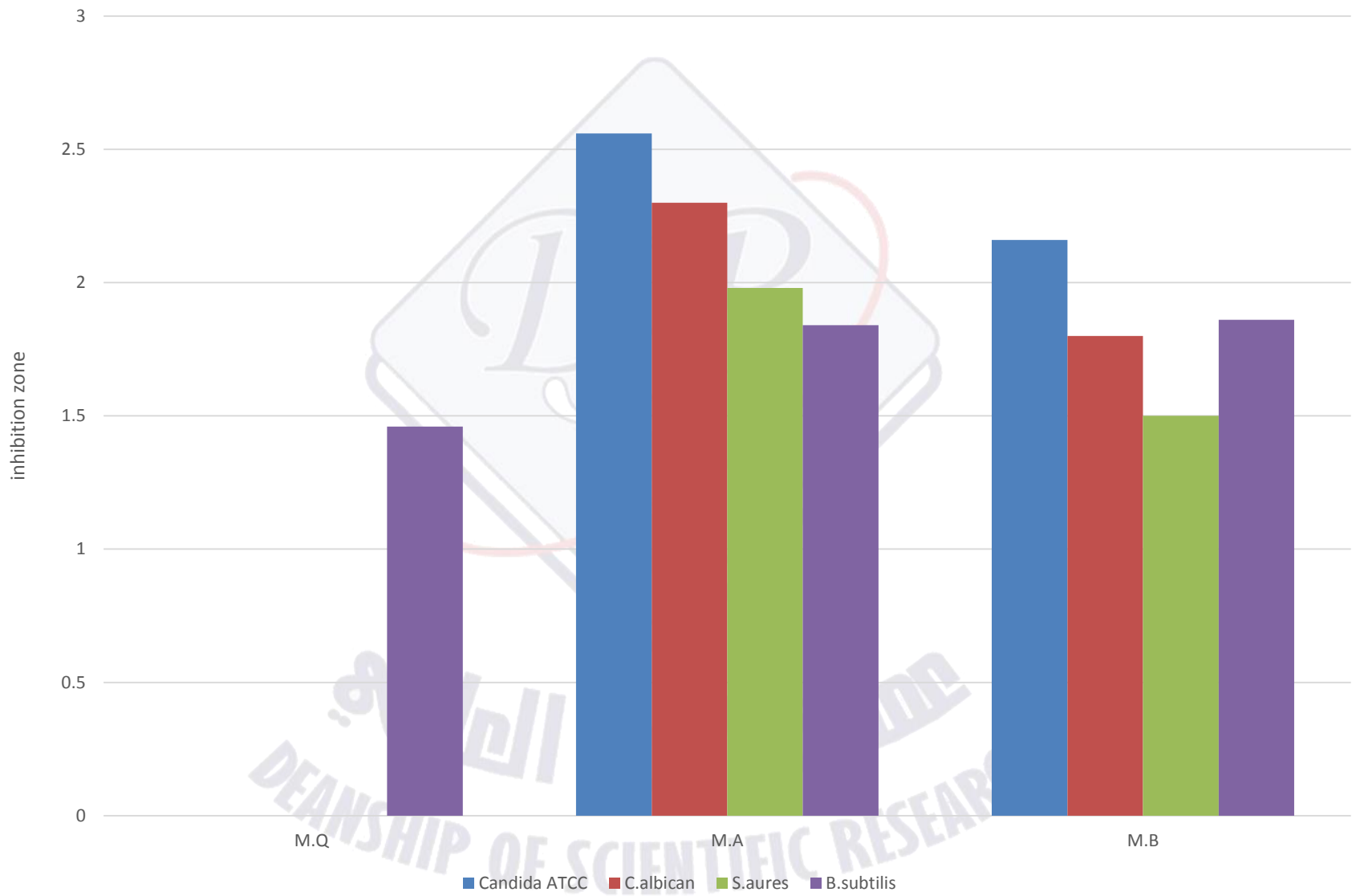
at 37C° for 5 days

Result

The results showed that the musk had inhibitory effects for the growth of microorganisms. The results showed that the effect of natural musk on the microorganism was more effective than the musk. The natural black musk gave the highest effect in terms of the size of the inhibition zone as shown in (Table 1.) , Whereas the most sensitive microorganism is *Candida albicans* ATCC 10231 as indicated by the results in (Fig 1.).

(Table 1): The following table shows the effect of 100% musk species on the growth of different microbial species

	MQ	MA	MB	Control
<i>C.albican</i> 2380				
<i>C.albican</i> ATCC				
<i>S. aureus</i>				
<i>B. subtilis</i>				



(Figure 1): The graph shows the average effect of concentrated musk species on microorganisms.

Discussion

This study is carried out to enhance the inhibition ability of natural and industrial Musk and evaluate the antagonistic effect of different on some pathogenic microorganisms like *C. albicans*, *S.aures*, *B.subtilis*, the results of this study confirmed the effectiveness of natural and chemical musk which contains some of the active substances that have the inhibitory capacity of a wide range of microorganisms .Musk contains active substances similar to antibiotics , alkaloids and volatile oils present in them as they have the ability to stop the growth of many microorganisms.

These compounds may affect fungi cells through disrupting their membranes, thereby depriving the substrate or inactivating the enzymes. This leads to cell lysis and death. suggested that polyphenols act on the microbes by disrupting their membranes, depriving the substrate or inactivating the enzymes. Also, Musk extract compounds may inhibit the microorganisms through inhibiting the synthesis of nucleic acids resulting in formation of abnormal proteins.

Abstract of this conclusion he achieved miracles in guiding the Prophet Mohammed using musk after menstruation and track, where it turns out that pathogenic microorganisms abound prepared in menstrual period and this study has demonstrated the effect of natural and artificial musk hostile to these microbes nurse for A positive result for vagina.

Recommendations

- Al-tahara Musk can be used as a natural antibiotic in the management and control of pathogenic microbes for diseases of the vagina as an alternative to industrial defenses, so it provides a promising source of new drug development.
- Using different concentrations of Al-tahara Musk and examine the effectiveness of their hostility to microbes under study.

Acknowledgments

The authors extend their appreciation to the Deanship of Scientific Research, King Saud University for funding this work through the Undergate Student's Research Support Program, (project no. URSP - 4 - 19 - 37)



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