

(2008/3/3 2007/5/7)

(*Staphylococcus aureus*, *Streptococcus pyogenes*, *Streptococcus faecalis*)
Klebsiella pneumonia , *Salmonella typhimurium* , *Proteus vulgaris* ,)

(*Pseudomonas aeruginosa*, *Escherichia coli*.

Staphylococcus aureus, *Streptococcus pyogenes*

Klebsiella pneumonia

/ 2.5 *Streptococcus pyogenes*

. / 0.25 *Klebsiella pneumonia* *Staphylococcus aureus*

The Study of Inhibitory Effect of Propolis on Some Gram positive and Gram Negative Bacteria

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ABSTRACT

The inhibitory effect of propolis produced by honey bees was determined for some Gr positive (*Staphylococcus aureus*, *Streptococcus pyogenes*, *Streptococcus faecalis*) and some Gr negative (*Klebsiella pneumonia*, *Salmonella typhimurium*, *Proteus vulgaris*, *Pseudomonas aeruginosa*, *Escherichia coli*.), the inhibition was particularly evident on, *Staphylococcus aureus*, *Streptococcus pyogenes* and *Klebsiella pneumonia*. The

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.(1998)

.(Elain et al., 2002 ; Velikova et al., 2000 1998)

Trichophyton rubrum

.(Murad et al., 2002 ; Velikova et al., 2000)

E.coli

Staph. aureus

.(Keskin et al., 2001 ; Moreno et al., 1999 ; Margo and Carralho., 1994)

2002

Elain

Phagocytosis

(Mirzoeva et al., 1996 ; Khayyal et al., 1993)

.(1998

Margo and Carralho., 1994)

(Bauer et al., 1966)

Diethyl Sulfoxide

0.5

0.5

(Lu et al., 2005)

10

0.1

:

Staphylococcus aureus, *Streptococcus pyogenes*, *Streptococcus faecalis*, *Klebsiella pneumoniae*, *Salmonella typhimurium*, *Proteus vulgaris*, *Pseudomonas aeruginosa*,
/ *Escherichia coli*.

24 37
 10^3 / $10^8 \times 1$
 0.1
 L
 24 37

Cephalexin Ampicillin

control

(Talib and Khurana, 1996 ; Vandepitte et al., 1991)

500 1 Diethyl Sulfoxide 10^3 1
 10^3 / 250 10^3 1 / 1000
 10^3 / (62.5 125 250 500 1000)
 100 10^3 .
 . 6
 24 37

Klebsiella pneumoniae

Pneumonia
 (1990)

Staphylococcus aureus , *Streptococcus pyogenes*
 .(1) *Streptococcus faecalis*

62.5 /	125 /	250 /	500 /	1000 /	
R	R	S	S	S	<i>Streptococcus pyogenes</i>
R	S	S	S	S	<i>Staphylococcus aureus</i>
R	S	S	S	S	<i>Klebsiella pneumonia</i>

/ 7.8 (MIC) *Streptococcus pyogenes*
(Moreno et al., 1999)

Streptococcus pyogenes
(Drago et al., 2000)

MIC

Pseudomonas aeruginosa *Staphylococcus aureus* 3 / 14 MIC
(Burdock, 1998) *E. coli*

.1990

.1998

.1973

.2006

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