

( *Ocimum basilicum L.* )

*Labiata* ( *Ocimum basilicum L.* )  
 (Lamiaceae)  
 ( , , )  
 1.20%  
 1.35%  
 1.75%

*K.* 15%  
 . 3%  
*E.coli* 22%  
 , 7%  
 , 10 %  
*.penumoniae*

*Labiata* (Lamiaceae) *Ocimum basilicum L.*  
 25)  
 .(1990 ) ( 40 -  
 .(2006 Tohti ) .

( 1985 Ayensu Duck ; 1994 )

(1988, )

. 2009 / 6 / 20  
. 2010 / 1 / 17

Lachowicz)

.(1988 ; 1985 Ayensu Duck ; 1981 Heath ; 1996

*O.basilicum*

: Essential oil L.  
 Methyl euogenol , 1,8-cineole ,  $\beta$ -ocimene , Linalool , L-camphor , Methyl  
 chavicol , Eugenol,  $\beta$ -elemene ,  $\beta$ -caryophyllene ,  $\alpha$ -humulene , Germacrene-D  
 , Bicyclogermacrene ,  $\alpha$  - amorphene, Terpinen-4-ol,  $\alpha$ -terpineol, Nerol,  
 Limonene, Linalool, myrcene,  $\alpha$ -pinene, Geraniol,  
 $\beta$ -cubebene, 3,7-dimethylocta-1,7-dien-3,6-diol ,  
 . ( 2002 Chalchat Ozan ; 2009 Rashed )

Mansroi ; 2006 Almkeida ; 2006 Bozin)  
 ( 2006  
 (1993, ; 1994, )  
 ( 2004, Ernst Martin)

. ( 2006 Almeida ; 2006 Bozin ; 2006 Mansroi)

(10)

. (1993 ) Perez Anesin	:	-1
. (1996)	:	-2
. ( 1993) Perez Anesin	:	-3
. (1975) Brole Deshmukh	:	-4
.(1987)	: <b>Tannins</b>	-1
. (1982 )	: <b>Resins</b>	-2
. ( 1982)	: <b>Saponines</b>	-3
. ( 1983) Jaffer	: <b>flavones</b>	-4
. ( 1973 ) Harborne	: <b>Alkaloids</b>	-5
.(1993)	: <b>Glycosides</b>	-6
. ( 1973 ) Harborne	: <b>Phenols</b>	-7

	<b>: Terpens and steroids</b>	-8
	. (1999) Al- Maisry	
. ( 1983) Jaffer	<b>: Coumarines</b>	-9
Indian Herbal pharmacopoeia	<b>: Volatiles oils</b>	-10
	. ( 1998)	
	<b>Volatile oils</b>	
( 2000 )	<b>: Steam extraction</b>	-1
	. ( 2002 )	
. ( 1996 ) Evans	<b>: water extraction</b>	-2
<b>:Extraction by organic solvent</b>		-3
	.( 2005)	
	. ( 2000)	-1
	. ( 2002)	-2
. (2002 ) (2000)	:	-3
:	:	
<i>E.coli</i> , <i>K. penumoniae</i> ,	:	
.	<i>S. epidermia</i> , <i>P. putid</i>	
Nutrient agar		
4-3	single colony	
(24) (37)		
24	Nutrient broth	
Nutrient	37	Broth
	Agar – Well diffusion	
	. ( 1990	Perez )
	ANOVA	
	. (1980	)
<i>O.basilicum</i> L.	(1)	



(1989 )

(1983 )

(2003 )

( 1986 Burden Kemp)

Linalool

(2009) Rashed

( 2005 )

(1983 )

(1.20 %)

( )

(1990 Abdel Baky)

( 1.35 % )

(1976 Bhatti Karim)

Chalchat Ozan

)

(1.59%)

(1.75%)

(2002 )

(1989 )

( 2000 )

. 2

11 - 0	
0.98 - 0.90	
1.52 - 1.48	

20

1.333

( 1999 Murray ; 2001 Beg Ahmed )

( 14 mm )  
Murray)

*E.Coli*

( 3 )

*E.Coli*

Heath; 1988

(2003  
; 1985 Ayensu Duck ;1996

Afest ; 1999  
Lachowicz )  
(1981

Camphor

*Staph. Epidermis*  
( 12mm )

( 1989 )

( 9 mm )  
Weiser Myrvick )

*Ps.Putida*

Eugenol

( 2000, )

( 2004) Ernst Martin

( 1988

*K.penumoniae*

( 1999 Cowan )  
(1992 Lima)

( 2003 )

( 1991 Murray ) RNA DNA

( )				
<i>Klebsiella penumoniae</i>	<i>Pseudomonas putida</i>	<i>Staphylococcus epidermis</i>	<i>Escherichia coli</i>	
7.95 ± 0.11	9.63 ± 0.84	12.53 ± 0.28	14 . 59 ± 0.33	%100
5.10 ± 0.31	7.32 ± 0. 26	11.26 ± 0.11	12.34 ± 0.73	% 75
4.31 ± 0.17	5.52 ± 0.12	9.81 ± 0.62	10.83 ± 0.33	%50
2.41 ± 0.74	4.22 ± 0.72	8.32 ± 0.51	6.3 ± 0.75	%25
0.00 ± 0.00	2.89 ± 0.10	5.10 ± 0.13	3.98 ± 0.23	%12.5
0.00 ± 0.00	1.52 ± 0.21	3.98 ± 0.03	2.56 ± 0.58	% 6.25
0.00 ± 0.00	0.00 ± 0.00	2.12 ± 0.41	1.42± 0.61	%3.13
0.00 ± 0.00	0.00 ± 0.00	00.00 ± 0.00	0.00± 0.00	%1.56

( Vasicine) . 1986 .  
 . 2000 .  
 . 1989.  
 . 2003.

*Adhatoda vasica L.*

.1993.  
 .1996.

.1990 .

. 2002 .

*Foeniculum Vulgare Mill*

. 1983.

, 119 .

.1980.

*Euphorbia* .2003.

– *prostratal.*

. 2000.

*cymbopagon citrates*

–

.1993 .

. 2005.

*Ruta chalepensis* L

. 1989.

. 2005.

*Eruca sativum* L .

.1987.

.1988 .

. 1982 .

00 . 1994.

.16 / ,(5)

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"Aqueous extracts of Ocimum basilicum L.(sweet basil ) decrease platelet aggregation induced by ADP and thrombin in vitro and rats arterio – venous shunt thrombosis in vivo " . thrombs. Res . 118 (6): 733-9 .

**IDENTIFICATION OF SOME SECONDARY METABOLIC COMPOUNDS IN OCIMUM (*Ocimum basilicum* L.) AND STUDY THE EFFECT OF ITS VOLATILE OIL ON SOME PATHOGENIC BACTERIA .**

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**ABSTRACT**

This search is carried out on *Ocimum basilicum* L. from Labiate (Lamiaceae) Family ,The purpose is uncovering secondary metabolism components (Alkaloids, Glycosides , Tannins , Resons , Saponines , Flavones, Phenols , Terpens , Steroids , Comarins and Volatile Oil) in various parts (stems , leaves, flowers).the result is found the plant is rich with secondary metabolism components As to Extraction volatile oil in Steam extraction the rate of it's extraction (1.20%), water extraction is (1.35 %) and Extraction by organic solvent is (1.75%) . Its rate higher found it.

Then oil extraction quantification some physical quality like light rotation, density and fracture coefficient after that to test inhibition effect for oil against some types pathogenic bacterial is higher effect anti *E.Coli* and minimum for its inhibition was anti *K. penumoniae* bacteria .