

***Musca domestica***

(2011 / 4 / 4 2011 / 2 / 14 )

—	<i>Musca domestica</i>	75
3 /	<sup>3</sup> 10 × 5.98	.2010
.	3 / <sup>3</sup> 10 × 5.6 <sup>3</sup> 10 × 5.78	

—:

*Bacillus cereus* , *Acinitobacter* spp. , *Micrococcus luteus* , *Aeromonas* spp., *Proteus vulgaris* , *Streptomyces* spp., *Pseudomonas aeruginosa* *Staphylococcus aureus* , *Escherichia coli*.

:

*Lactobacillus* spp. , *Bacillus mycoides*, *Micrococcus roseus* , *Alcaligenes* spp. *Neisseria* spp. , *Proteus vulgaris* , *Pseud. aeruginosa*.

*Streptomyces* spp.

*Bacillus mycoides*

*Acinitobacter* spp. , *Proteus vulgaris* ,

*Pseud. aeruginosa* *Bacillus mycoides* *Micrococcus luteus* , *Alcaligenes* spp.

## Isolation and Identification of Bacterial Species from House Fly *Musca domestica* Wings

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### ABSTRACT

Seventy five house fly *Musca domestica* were collected from Mosul city, the higher account of isolated bacteria is  $5.980 \times 10^3$  CFU/ ml from the body compare with right and left wings  $5.78 \times 10^3$  and  $5.6 \times 10^3$  CFU/ ml respectively . Species belonged to *Bacillus cereus*, *Acinitobacter* spp., *Proteus vulgaris* , *Streptomyces* spp. , *Aeromonas* spp., *Micrococcus luteus*, *Escherichia coli* *Staphylococcus aureus* , *Pseudomonas aeruginosa* , isolated from the right wing while *Lactobacillus* spp. , *Bacillus mycoides* , *Micrococcus roseus* , *Alcaligenes* spp. , *Neisseria* spp. , *Proteus vulgaris* , *Pseud. aeruginosa* were isolated from the left wing.

The isolated species from the right and left wings shown different antibacterial activities against the isolates of the same and the opposite wings. while the *Streptomyces* spp. isolated from the right and the *Bacillus mycoides* which isolated from the left wings shown effect on the most detected species under the study. The bacteriophage of the species belong to *Acinitobacter* spp., *Proteus vulgaris* , *Micrococcus luteus* , *Alcaligenes* spp. , *Bacillus mycoides* and *Pseud. aeruginosa* were isolated from the fly under the study.

	100			
	5	41	3	
	60	.	14	7
				Musca
Muscidae			<i>Musca domestica</i>	
		( 2009		) Diptera

.....

( HIV )

.(Cranshaw and Peairs,2009 ; 2009 ) E A

Bacteriophage

.( Shope, 1927 )

*Musca domestica*

)) ( )  
((

- *Musca domestica* 75  
. 2010 /

:

) % 0.9 3 5

.(2008

:

( ) 3 0.05

Blood agar

%1

-:

. MacConkey agar

48 (CFU ) ° 37

. (Winn *et al.*, 2006 ; Collee *et al.*,1996 ; Holt *et al.*, 1994 )

**Antimicrobial activity**

(2006)

( Waksman, 1967)

**Bacteriophage**

24 3 5 -1  
 10<sup>8</sup> × 9 ° 37  
 24 .<sup>3</sup> / -2  
 24 ° 37  
 Bergan ) 24 3 0.5 -3  
 Plaque ° 37  
 ( and Norris, 1979

(1)

*Musca domestica*

.(Butler *et al.*, 2010)

*Musca*

(<sup>3</sup> 1 \ CFU )

: 1

*domestica*

<b>3 / CFU</b>				
<b><sup>3</sup>10×</b>				
5.940 – 0	5.800 – 0	5.940 – 0		<b>75</b>
5.600 – 0	5.780 – 0	5.980 – 0		

-:

*Bacillus cereus*, *Acinitobacter* spp., *Micrococcus luteus* , *Aeromonas* spp., *Proteus vulgaris* , *Streptomyces* spp. *Staphylococcus aureus* , *E.coli* , *Pseud. aeruginosa*

:

*Lactobacillus* spp. , *Bacillus mycoids*, *Micrococcus roseus* , *Alcaligenes* spp. *Neisseria* spp. , *Proteus vulgaris* , *Pseud. aeruginosa*.

( 2008 ; Yap *et al.*, 2008 )

: 2

<i>Lactobacillus</i> spp.	<i>Bacillus cereus</i>
<i>Alcaligenes</i> spp.	<i>Streptomyces</i> spp.
<i>Bacillus mycoides</i>	<i>Micrococcus luteus</i>
<i>Neisseria</i> spp.	<i>Aeromonas</i> spp.
<i>Proteus vulgaris</i>	<i>Acinitobacter</i> spp.
<i>Micrococcus roseus</i>	<i>Proteus vulgaris</i>
<i>Pseud .aeruginosa</i>	<i>E.coli</i>
	<i>Pseud .aeruginosa</i>
	<i>Staph.aureus</i>

( )



.....

*Streptomyces* spp.

( 4 )

*Bacillus cereus*, *Micrococcus luteus*,

*Pseud.aeruginosa*, *Staph.aureus*, *E. coli*

*Streptomyces* spp.

:4

<i>E.coli</i>	<i>Proteus vulgaris</i>	<i>Acinitobacter</i> spp.	<i>Staph.aureus</i>	<i>Aeromonas</i> spp.	<i>Pseud.aeruginosa</i>	<i>Micrococcus luteus</i>	<i>Bacillus cereus</i>	<i>Streptomyces</i> spp.
+	-	-	+++	-	++	+	+	

- + + + •

( 5 )

*Micrococcus luteus*

*Micrococcus roseus*

( Riley and Chavan , 2007)

*Pseud. aeruginosa*

*Neisseria* spp. , *Proteus vulgaris*

*Bacillus mycoides*

*Bacillus cereus* , *Micrococcus luteus* , *Pseud.aeruginosa* , *Acinitobacter* spp.,

.( Prescott *et al* ., 2005)

*Proteus vulgaris*

: 5

<i>Bacillus mycoides</i>							
<i>Proteus vulgaris</i>							
<i>Neisseria spp.</i>							
<i>Alcaligenes spp.</i>							
<i>Micrococcus roseus</i>							
<i>Pseud.aeruginosa</i>							
<i>Lactobacillus spp.</i>							
							<i>Bacillus cereus</i>
							<i>Micrococcus luteus</i>
							<i>Pseud.aeruginosa</i>
							<i>Aeromonas spp.</i>
							<i>Staph.aureus</i>
							<i>E. coli</i>
							<i>Acinitobacter spp.</i>
							<i>Proteus vulgaris</i>
							<i>Streptomyces spp.</i>

- + + + + •

*Bacillus mycoides*

(5)

*Bacillus mycoides* ,

( 6 )

*Alcaligenes spp.*, *Proteus vulgaris* *Pseud. aeruginosa* , *Micrococcus roseus* ,

*Bacillus*

(2008)



.....

*Bacillus mycoides*

: 6

<i>Proteus vulgaris</i>	<i>Neisseria spp.</i>	<i>Alcaligenes spp.</i>	<i>Micrococcus roseus</i>	<i>Pseud.aeruginosa</i>	<i>Bacillus mycoides</i>	<i>Lactobacillus spp.</i>	
++	-	++	+	+	++	-	<i>Bacillus mycoides</i>

- + ++ + + + •

60-30

7

*Proteus vulgaris*, *Bacillus mycoides*, *Pseud. aeruginosa*, *Acinitobacter spp.* ,  
*Alcaligenes spp.*, *Micrococcus luteus*

(Baeshin *et al.*, 1990)

: 7

+	<i>Proteus vulgaris</i>	
+	<i>Micrococcus luteus</i>	
+	<i>Acinitobacter spp.</i>	
+	<i>Alcaligenes spp.</i>	
+	<i>Bacillus mycoides</i>	
+	<i>Pseud. aeruginosa</i>	

.(2009) .

.20-15 1 23 .

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