



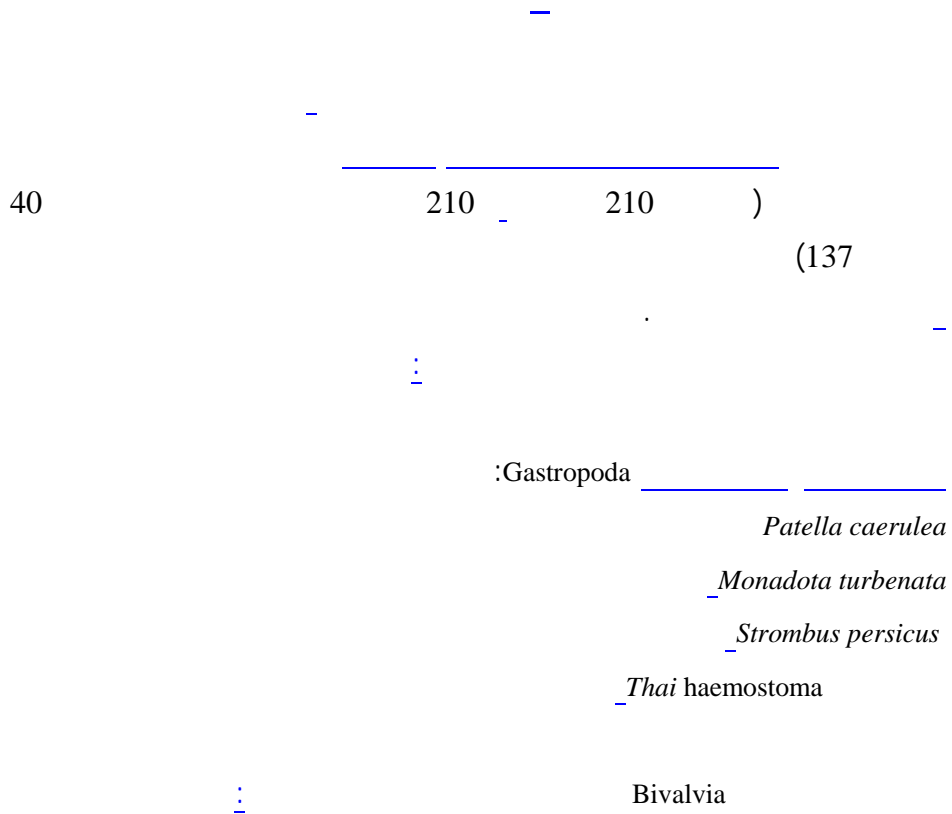
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# دراسة الرخويات المنتشرة على طول الشاطئ السوري إشعاعياً

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2242



: *Chama pacifica*  
*Brachidonta variabilis*  
*Spondylus spinosus*

*Pinctada radiata*

( )

:

<i>Spondylus spinosus</i>	/	617±36	210
<i>Chama pacifica</i>	/	77±13	210
<i>Chama pacifica</i>	/	8.7±1	234
<i>Chama pacifica</i>	/	6.8 ±1	238
<i>Spondylus spinosus</i>	/	11.7±2	226
<i>Chama pacifica</i>	/	11.5±3.4	
<i>Patella caerulea</i>	/	465±29	40
<i>Strombus persicus</i>	/	451±22	
<i>Chama pacifica</i>	/	2.2±0.6	137
<i>Spondylus spinosus</i>	/	2.1±0.6	

:

<i>Chama pacifica</i>	/	38.3±4	210
<i>Strombus persicus</i>	/	34±3	
<i>Strombus persicus</i>	/	16.5±5	210
<i>Monadota turbenata</i>	/	16.2±5	
<i>Spondylus spinosus</i>	/	3.1±0.5	234
<i>Spondylus spinosus</i>	/	2.6±0.4	238
<i>Brachidonta variabilis</i>	/	4.5±1.2	226
<i>Spondylus spinosus</i>	/	31±10	40
<i>Strombus persicus</i>	/	1.6±0.5	137
<i>Brachidonta variabilis</i>	/	1.4±0.4	

(CF)

	:	/	
<i>Spondylus spinosus</i>		$10^3 \times 90$	210
<i>Spondylus spinosus</i>		$10^3 \times 48$	210
<i>Spondylus spinosus</i>		$10^2 \times 0.9$	137
<i>Spondylus spinosus</i>		$10^2 \times 3$	234
<i>Chama pacifica</i>		$10^2 \times 2.3$	
<i>Spondylus spinosus</i>		$10^2 \times 2.8$	238
<i>Chama pacifica</i>		$10^2 \times 2.2$	

	:	/		CF
<i>Chama pacifica</i>		$10^3 \times 6$	210	
<i>Strombus persicus</i>		$10^3 \times 5.3$		
<i>Strombus persicus</i>		$10^3 \times 8.6$	210	
<i>Monadota turbenata</i>		$10^3 \times 5.3$		
<i>Strombus persicus</i>		$10^2 \times 0.6$	137	
<i>Monadota turbenata</i>		$10^2 \times 0.5$		
<i>Brachidonta variabilis</i>		$10^2 \times 1.1$	234	
<i>Strombus persicus</i>		$10^2 \times 1$		
<i>Brachidonta variabilis</i>		$10^2 \times 1.1$	238	
<i>Strombus persicus</i>		$10^2 \times 1$		

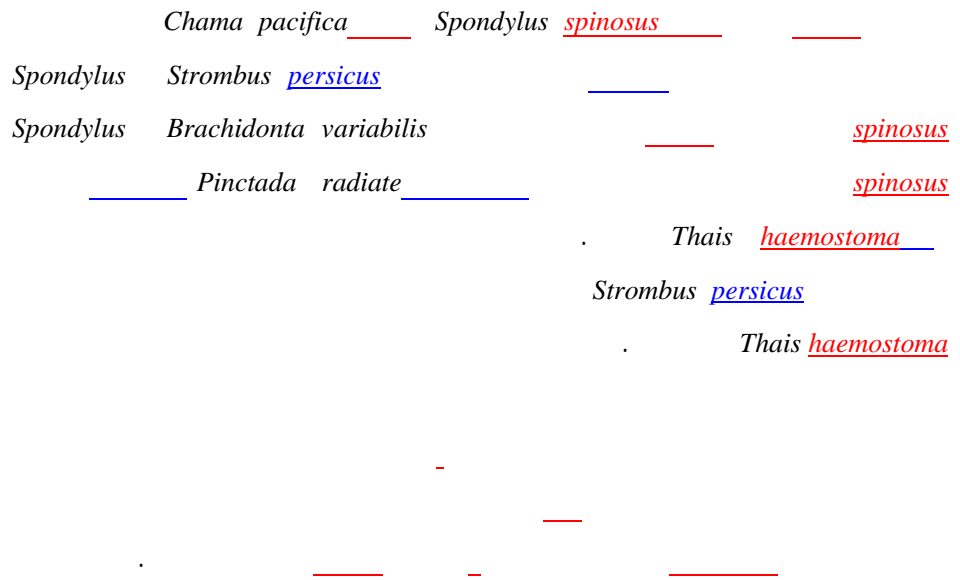
(Zn, Cd, Cu, Pb)

	:	/	
<i>Pinctada radiata</i>			$3404 \pm 39$
<i>Brachidonta variabilis</i>			$2 \pm 0.08$
<i>Spondylus spinosus</i>			$7.1 \pm 0.3$
<i>Thais haemostoma</i>			$344 \pm 2.3$

:

<i>Strombus persicus</i>	/	77±1.5
<i>Thais haemostoma</i>	/	1.8±0.02
<i>Strombus persicus</i>	/	0.8±0.03
<i>Strombus persicus</i>	/	26±1.5

(Box Plot)



7	.1
11	.2
12	.3
16	.4
26	.5
26	.6
27	.7

(1997 )

)

:Deleted

(1997 )

(... Pu <sup>137</sup>Cs <sup>90</sup>Sr)

( )

(Othman et al, 1994 )

137

/ 30

210

*Ulva Lacyaca*

*.Enteromorepha Linza*

)

(Al-Masri et al, 1998;1999)

(

(Abosamra et al, 1989) 1989

(Al-Masri, et al, 2003)

/ 1.2 )

137

210

(

*.Jania longifurca*

(

/

27.43)

210

*Cystoseira Sargassum Vulgare*

Co Cu As Cr

36

210

210

(Al-Masri et al, 2000)

/ 0.38 0.05

/ 27.8 0.27

210

210

(Al-Masri et al, 1999)

(Cu, Pb, Zn, Cd)



(1995 1994 1985 1992 )

( )

( )

(Gastropoda)

*Mollusca*

(Bivalva)

(1994 )

)

Andral et al, 2004, Bustamante et al, 2002, CIESE, 2002, Catsiki and ) (

(Bioindicators)

"

(Florou, 2006, Chafik et al, 2001

:

( ) .1

.2

.3

.4

(Spawning)

(CIESEM, 2002)

( )  
(CIESEM, 2002)

Ravera, ) %50 %99 %20  
(2001

(Pavicic et al, 1987) (CIESEM, 2002)

*Medridia gerlachei*

0.5 / 0.2 / 0.6 /  
(Ravera, 2001)

(*Mytilus Galloprovincialis*) .Mussel watch program

Germain et al, 1995, Golberg, 1980, Claissa, 1989; Calisse et al, )  
2001, Cossa, 1989; Fisher et al, 1996; Gouvea et al, 1992; Guary & Fowler, 1981;  
Jtab et al, 1995; Nolan & Dahlgadble, 1991; Nakhale et al, 2006; Nicholson & Law,  
2005; Odzak et al, 1994; Oconuor, 2002; Regoli & Orlando, 1994; Rodriguez et al,  
1995; Stepnowski & Skwarzec, 2000; Salas et al, 2006; US of et al, 2004; Ugur et  
Gosselck ) (*Zebra Mussel, Dreissena Polymorpha*) (al, 2002  
(et al, 1986; Charmasson et al, 1999; Cantillo 1998

: (Concentration Factor) CF

$$/ = (CF)$$

CF

( )

. 1999 1996 1994 )

( 2002 1995

(2001 ) ( )

(2002 )

(2000 )

UNEP (

(Pinctada radiata )

(Zenetos, Ammar, Ibrahim, 2005)

(Galil, et al 2002, Zenetos, et al, )

2003., Ammar, 2004 a+b

:Deleted

(CF)

)

(1997)

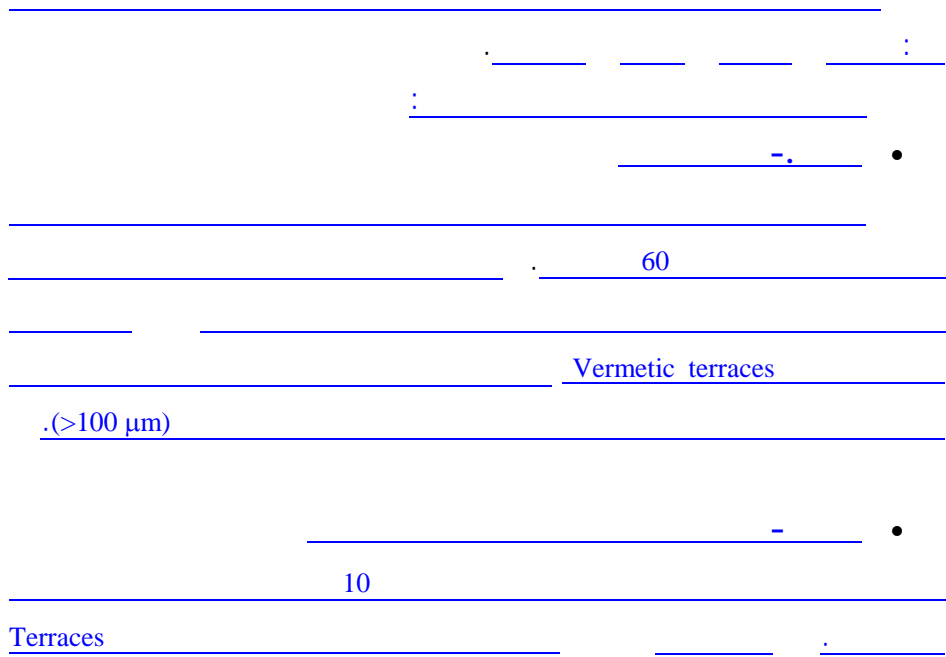
.2

$^{210}\text{Po}$   $^{210}\text{Pb}$  137 )

(

.3

.1 .3



.Organic stone -

: \_\_\_\_\_ •

(30 m)

.( )

.( $>100 \mu\text{m}$ )

( \_\_\_\_\_ ) - \_\_\_\_\_ •

.2 .3

.Sub-lithoral Lithoral :

15-2

2005 2004 2003

( 30)

(1)

: .3 .3

105

: .4 .3

: 210 210 .1 .4 .3  
200 ( ) 5-1

208 0.2

50

( )

( / 6) 10

210 . 100

210

(HpGe)

<sup>2</sup> / 40

50

30

1.1

: 210 210 .2 .4 .3

4

( 0.2) 208

210

.(pH=9)

210

210

.3 .4 .3

0.25

600

18.5

100

232

7

(Dowex AG 1×4)

50

.( 7)

60

( 0.5)

5

.(1.5 )

(Dowex AG 1×8)

20

.(2.2 )

60

10

1.2

:

.4 .4 .3

(210

40

137 )

.(HPGe)

30

40

50

, 1.1

226

%.15

15

: **137** **.5 .4 .3**  
 0.3 AMP .( 30) AMP  
 24 .AMP  
 50 .  
 1 .( 10) ( )  
 : **.6 .4 .3**  
 25 150 3 -1  
 (%65)  
 90 .  
 50 (%25)  
 ( )  
 .Anodic Stripping Voltametry

**:(Concentration Factor) CF** **.7 .4 .3**  
 CF  
 .Concentration Factor  
 .( )  $10^6$



.4

.4.1

:

*Gastropoda*

.1

Bivalvia

*Gastropoda*

.4.1.1

(Radula )

(Linnaeus, 1758) *Patella caerulea* •

20

10-8

40

Syssil



*Patella caerulea*

(Born, 1780) *Monodonta turbinata* •

---

---

22

---

---

25



*Monodonta turbinata*

(Swainson, 1821) *Strombus persicus* •

---

---

45-35

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/ /



*Strombus persicus*

(Linnaeus, 1757) Thais haemostoma •

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9

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*Thais haemastoma*

**Bivalvia** \_\_\_\_\_ **.4.1.2**

Radula

Detritus

( )

*(Fischer P., 1870) Brachidontes pharaonis* •

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40

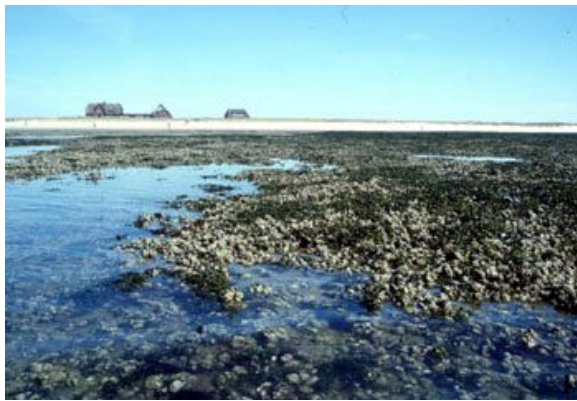
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Byssus

Filter feeder

*Mytilus galloprovincialis*



*Brachidontes pharaonis*

*(Leach, 1814) Pinctada radiata* •

65 -50

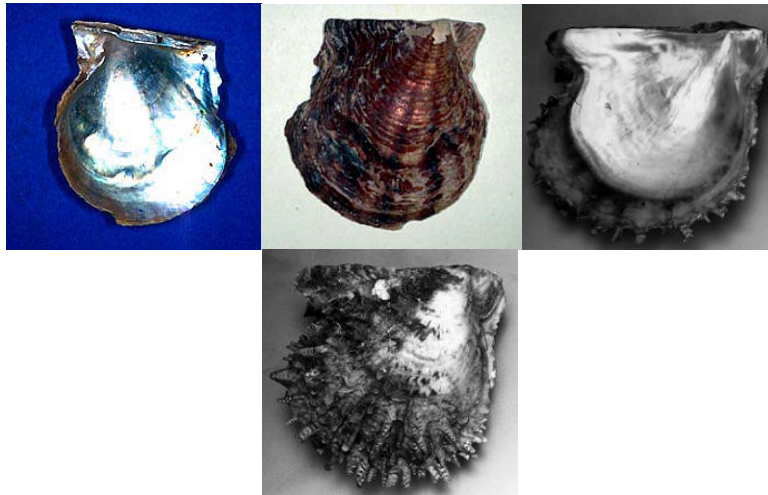
)

190

(

20-5

(Al-Madfa et.al., 1998)



*Pinctada radiata*

*Spondylus spinosus* (Schreibers, 1793) •

( )

.Muricidae

(2 –40 m)

.Chama pacifica

15



*Spondylus spinosus*

*Chama pacifica* (Broderip 1834) •

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/ 2.2 137  
 .(4 ) *Chama*  
 / 608  
 137 / 1.4 Brachidonta 40  
 (1)  
 .(3 )  
 210  
 210  
 210  
 Bustamante et. Al, ) *Chlamys varia* / 1181  
*Mytilus edulis* (2002  
 .(Germain et al., 1995) / 700  
 210 210 (Ugur et al., 2002)  
 6 / 1344 52  
 / 167  
 (14-1)  
 210  
 210 *Spondylus spinosus* |  
 )  
 ( 137 226 235 234  
 137 (3 )  
 25

**.4.3**

(84-15)

210 (21 )  
210  
(55 ) 137

: **.4.4**

(4)

210 5 (5 )  
*Spondylus spinosus* 9×10<sup>4</sup>  
210 4.8×10<sup>4</sup>  
.210 210  
137

Strombus  
210 1×10<sup>2</sup> 0.6×10<sup>2</sup> 8.6×10<sup>5</sup> 5.3×10<sup>3</sup>  
238 234 137 210

**.4.5**

9 8 7 6

*Brachidonta* 2  
*Pinctada Radiata* 3404 [variabilis](#)  
.( 344) *Thais*  
77 *Strombus*  
26 0.8  
(124-85)  
(104-95)  
*Strombus* *Brachidonta* *Monodonta*  
*Brachidonta* *Strombus*  
*Strombus*  
.9 8  
 $3 \times 10^3$   $7 \times 10^3$  *Strombus*  
*Brachidonta* [variabilis](#)



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				(145-123)
		"	.(1994)	▪
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			.(183-146)	(2) -
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" .(1999) .  
 " Bivalvia Gastropoda  
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148 / - ( )

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148 / - ( )  
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.1985-1984  
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-

متوسط طول القوقعة مم	عدد الأفراد	معامل التجفيف %	وزن الجزء الجاف غ	وزن الجزء الرطب غ	نفة			
22	1191	16.4	48.3	295.4	ي			
		99.7	697.7	700	نة			
25.4	1090	18	50	274	ي			
		18	50	274	نة			
21.5	1121	17	37.4	220	ي			
		99.8	796.7	798.6	نة			
19.8	2000	20	44	220	ي			
		83	165	200	نة			
22.9	1590	19.6	70.8	360.5	ي			
		93.9	685.2	729.8	نة			
24.3	954	20	42	206	ي			
		20	42	206	ي			
25.7	790	20	71.7	357.9	ي			
		99.5	696.7	700	نة			
27.5	1858	21	83	400	ي			
		21	83	400	ي			
27.4	450	23.3	106.2	455.2	ي			
		98.5	1054.5	1071	نة			
23	655	29	143	488	ي			
		93	210	225	نة			
24.7	800	21.4	103.8	485.1	ي			
		95.6	1064.3	1113.2	نة			
24.9	780	30	153	507	ي			
		95	623	661	نة			
22.1	700	18.8	95.4	508.7	ي			
		84.8	417.4	492	نة			
25.6	790	27	118	431	ي			
		92	230	250	نة			
22.5	490	27.9	134.8	483.3	ي			
		86.6	858.7	992.1	نة			
32	200	28	130	460	ي			
		93	232	250	نة			

30.5	564	21.7	91.6	428.8	ى			
		89.2	653	732	ة			
31.6	805	26	206	791	ى			
		80	329	410	ة			
30.1	988	23.1	122.6	530.9	ى			
		88	622.5	707	ة			
27.5	1440	21	118	551	ى			
		84	603	718	ة			
26.3	1010	19.2	80.4	418.1	ى			
		89.7	1179.8	1316	ة			
29.4	1096	23	215	958	ى			
		82	235	408	ة			
32.7	351	26.2	236	902	ى			
		84.5	839.2	992.8	ة			
32.6	819	25	236	955	ى			
		82	402	491	ة			
33.9	312	18.5	39	210.5	ى			
		78.6	657.9	837	ة			
4.3	220	22	88.7	405	ى			
		84	1433	1700	ة			
37.7	249	20.9	86.2	412	ى			
		93.6	702.1	750.4	ة			
41.3	400	25	170	677	ى			
		86	434	504	ة			
42	326	21	176.6	850	ى			
		84	841	1000	ة			
39.5	130	25	170	677	ى			
		86	434	504	ة			
42.6	159	22	81	667	ى			
		92	924	1000	ة			
98	9	17.3	17.7	102.5	ى			
		91	285.6	315	ة			
10.1	20	13	63.1	511	ى			
		95	940	987	ة			
101	28	21.3	138.3	650	ى			
		89.9	876.1	974	ة			
10.5	9	15	58	378	ى			
		92	2153	2332	ة			

79	31	12	95.2	798	ى			
		75	822	1091	ة			
84	42	18	140	794	ى			
		72	831	1150	ة			
8.9	15	13	86	673	ى			
		93	1076	1160	ة			
76.6	41	28	234	840	ى			
		93	926	1000	ة			
79	26	27	123	455	ى			
		92	260	283	ة			
55	81	18	62	350	ى			
		84	835	993	ة			
78	54	19	51	263	ى			
		85	573	677	ة			
5.6	24	20	26.3	134	ى			
		88	1258	1426	ة			
5.6	6	15	5	34	ى			
		98	442	447	ة			
5.6	22	20	48	239	ى			
		87	865	1000	ة			

(2)

البوتاسيوم 40 بيكرل/ كغ جاف	الراديوم 226 بيكرل/ كغ جاف	اليورانيم 238 بيكرل/ كغ جاف	اليورانيم 234 بيكرل/ كغ جاف	السيوم 137 بيكرل/ كغ جاف	الرصاص 210 بيكرل/ كغ جاف	البولونيوم 210 بيكرل/ كغ جاف					
462±22	4.0±1	4.45±0.35	5.68±0.40	0.9±0.3	12.9±3.8	375.6±24.4					
17±2	2±0.5	3.39±0.31	3.93±0.34	1.0±0.3	14.3±5	20.4±1.4					
504±26	6.3±2	5.35±0.42	6.54±0.63	1.9±0.6	14.8±4.5	370.3±13.7					
21±3	3±0.6	4.65±0.47	5.74±0.54	2±0.7	18.4±6	19.7±1.9					
242±29	2±0.5	3.78±0.23	4.71±0.26	1.9±0.5	18.9±8	399.3±7.3					
21.0±2	5.7±1.8	2.31±0.23	2.53±0.26	0.7±0.2	10.0±3	17.1±1					
253±31	2.9±0.5	4.1±0.33	4.98±0.32	2.3±0.8	21.2±9	372.8±14.9					
25.3±3	7.5±2.1	1.98±0.32	2.23±0.34	1±0.3	12.2±4	17.5±1.6					
268±29	6.7±1.6	1.16±0.17	2.07±0.23	1.8±0.5	20.0±6	427.4±24.2					
165±13	3.7±1.1	1.03±0.21	1.93±0.29	1.2±0.4	17.0±5	21.3±1.1					
282±32	8.3±2.3	1.08±0.18	1.98±0.24	2.8±0.7	23.6±7	459.1±20.4					
178±14	5.2±1.8	2.14±0.32	2.31±0.44	2.4±0.6	19.3±6	20.3±1.5					
212±26	8.2±2.5	4.23±0.33	5.12±0.35	1.7±0.5	16.0±5	152.3±4.8					
28.0±8	3.3±1	1.23±0.22	2.10±0.28	1.0±0.3	14.3±6	7.8±0.95					
225±29	10.3±3.2	5.23±0.58	6.58±0.44	2.3±0.5	17.2±6	170.1±11.2					
31±9	5.4±1.3	2.45±0.46	3.45±0.62	2.1±0.5	16.4±7	6.6±1.33					
260±26	5.6±1.4	7.36±0.41	8.12±0.43	1.0±0.3	19.3±6	588.8±35.8					
159±13	4.7±1.4	0.82±0.07	0.97±0.08	1.1±0.3	15.0±5	25.2±2.5					
273±29	11.2±3.5	9.21±0.68	10.2±0.98	2.4±0.6	21.3±8	533.2±17.1					
168±15	4.3±1.3	1.23±0.13	1.35±0.17	1.9±0.5	17.3±6	22.9±1.3					
610±32	5.6±1.5	4.78±0.38	5.47±0.41	1.6±0.5	16.7±5	206.6±14.8					
21.0±2	3.0±0.9	0.86±0.12	1.08±0.14	0.8±0.2	11.2±4	9.1±0.9					
563±25	9±2.3	5.68±0.58	6.25±0.68	2.1±0.5	19.9±9.3	215.6±9.2					
30±3	5±1.2	1.25±0.21	2.21±0.23	1.1±0.3	15±6.5	8.5±1.1					
253±36	19.7±4.8	4.66±0.35	5.69±0.39	2.1±0.6	30.1±9	206.2±18.6					
33.0±10	2.8±0.8	1.53±0.23	2.32±0.28	1.2±0.4	16±5	22.5±2.2					
274±32	20.8±5	5.87±0.63	7.25±0.78	2.5±0.6	27.2±8	209.2±8.4					
36±11	3.3±1.1	1.87±0.42	3.25±0.29	2.1±0.6	18.2±5.3	21.2±1.9					
338±29	3.5±1.0	4.82±0.36	5.45±0.40	1.6±0.5	12.4±5	338.3±24.7					
39±8	5.0±1.4	1.66±0.22	2.31±0.27	1.2±0.3	17.0±5	9.8±1					
358±30	6.6±1.6	4.65±0.45	5.23±0.42	2.6±0.7	15.6±6	345.8±18.6					
42±9	4.3±1.2	2.68±0.43	3.45±0.46	1.9±0.3	20.2±7	7.9±0.9					

414±26	6.1±1.5	5.48±0.34	4.67±0.31	1.7±0.5	33.5±10	345.4±28.3					
17.0±5	2.5±0.5	1.30±0.09	1.31±0.09	0.5±0.2	4.3±1.3	11.9±1.9					
476±29	8.3±1.9	4.60±0.35	4.89±0.44	3.1±0.4	36.8±13	342.3±22.3					
21±6	3.1±0.7	1.48±0.21	1.9±0.23	1.7±0.4	7.8±2.1	11.9±1.6					
491±30	6.4±1.6	4.10±0.29	4.09±0.29	1.8±0.6	22.9±7	140.3±16					
30±9	2.0±0.5	0.98±0.09	1.32±0.15	1.0±0.3	15.4±5	14.9±1.9					
482±31	6.8±1.5	4.83±0.51	4.47±0.43	1.8±0.7	23.5±7	144.6±7.7					
31±9	2.65±0.6	1.5±0.23	1.85±0.35	1.3±0.4	15.2±3.5	12.9±1.7					
577±27	3.8±1.0	3.50±0.30	4.51±0.35	1.2±0.4	12.0±4	68.9±12.7					
28.0±8	3.2±0.9	0.67±0.06	0.74±0.06	1.0±0.3	14.0±4	14.5±3.6					
578±28	3.8±1.2	3.81±0.39	4.5±0.5	1.6±0.5	12.8±4	70.8±7.1					
29±8	3.35±1.1	1.03±0.1	1.15±0.11	1.8±0.6	13.3±4.3	15.1±1.8					
354±32	2.0±0.5	4.50±0.31	4.76±0.33	1.80.6	17.7±6	73.1±14					
28.0±8	3.5±1.0	1.66±0.11	2.24±0.14	1.0±0.3	13.0±4	8.8±1.6					
354±30	3±1.1	5.68±0.5	4.93±0.62	2.4±0.9	17.4±7	69.8±6.3					
30±9	2±0.6	2.15±0.37	3.04±0.45	0.4±1.5	13.1±4	7.3±0.9					
345±28	4.5±1.4	3.32±0.32	4.16±0.37	1.6±0.5	9.3±3	307.4±29.2					
26.0±7	5.4±1.0	0.98±0.08	1.12±0.09	1.0±0.3	14.0±4	27.6±2.9					
356±29	5.1±1.4	4.35±0.44	5.23±0.54	2.1±0.6	14.2±4	301.7±23.5					
28±7	5.9±1.6	1.56±0.12	1.65±0.14	1.6±0.5	10.2±3	35.6±4.2					
264±28	6.0±2.0	4.32±0.32	5.12±0.34	1.8±0.6	23.2±7	453.4±31.1					
28.0±8	5.3±1.3	1.48±0.20	1.58±0.21	1.0±0.3	14.0±4	47.8±4.4					
276±30	6.4±2.1	6.21±0.62	7.89±0.75	2.3±0.7	25.3±7	493.4±19.8					
31±9	6.1±1.5	2.04±0.23	2.21±0.27	1.6±0.3	16.2±5	53.7±4.9					
688±40	3.6±1.0	4.60±0.31	5.80±0.36	1.7±0.6	24.1±7	293.9±17.4					
77.1±22	6.2±2.0	3.53±0.21	4.02±0.22	1.8±0.6	24.0±8	37.6±2.1					
699±43	4.3±1.3	5.69±0.39	6.58±0.48	2.2±0.7	22.4±7	277.6±9.2					
87±24	7.5±2.4	4.36±0.39	4.68±0.48	2±0.6	20.6±6	35.7±1.4					
525±33	6.1±3.0	7.65±0.42	7.38±0.41	1.6±0.6	20.0±5	323±19.4					
30±12	5.6±1	1.31±0.10	1.52±0.10	1.3±0.3	16.3±5	20.9±1.6					
283±45	11.6±2.6	7.34±0.32	8.35±0.35	3.0±1.0	110±27	1013.9±51.3					
40.0±12	2.1±0.6	2.78±0.14	3.02±0.15	1.4±0.5	14.3±5	34±1.6					
294±49	12.5±2.7	9.23±0.92	10.4±0.98	2.3±0.8	128±27	919.7±34.6					
35±9	4.1±1.2	3.54±0.46	4.35±0.57	1.2±0.4	12.5±5	36.1±3.1					
283±29	25.3±8	11.34±0.45	13.17±0.50	1.8±0.7	73.7±17	848.4±32.8					
38.5±13	6.0±1.1	2.54±0.31	2.95±0.30	1.0±0.3	15±5	37±1.4					
328±56	21.6±7	9.58±0.78	11.56±0.85	2.4±0.8	62.4±15	885.1±99.3					
42.5±11	5.3±1.3	2.89±0.38	3.57±0.47	1.1±0.3	13.6±4	28.1±4.7					



320±26	6.0±1.3	3.55±0.28	3.75±0.29	1.6±0.6	19.7±6	355.2±18.2				
21±8	2.6±1.0	2.78±0.30	3.13±0.32	0.7±0.3	10.1±3	13±1				
437±33	2.0±0.5	3.71±0.28	3.91±0.29	1.5±0.2	43.4±13	275.5±15.2				
25±10	2.0±0.5	1.63±0.20	1.87±0.26	1.0±0.2	15.2±5	13.9±1.1				
431±31	3.6±0.8	4.12±0.42	4.65±0.52	2.4±0.9	46±10	281.8±17.4				
22±8	2.1±0.5	2.13±0.29	2.35±0.34	1.0±0.3	17.4±2.1	19.4±2.4				
571±30	5.6±1.3	4.63±0.31	4.53±0.31	1.6±0.6	17.4±5	73.7±8.3				
26±13	2.0±0.5	3.11±0.20	3.83±0.23	1.0±0.2	14.2±4	16.1±1.1				
602±31	6.5±1.5	4.87±0.43	5.69±0.42	1.6±0.4	19.2±6	78.9±8.2				
30±12	2.1±0.5	3.87±0.47	4.78±0.56	1.2±0.3	17.5±5	19.8±2.7				
391±25	8.2±1.2	2.47±0.22	2.76±0.23	1.1±0.2	±517.0	205.5±13.3				
31±29	2.0±0.5	1.66±0.18	2.21±0.21	1.1±0.3	11.3±4	7.8±1.4				
496±29	6.7±1.6	2.10±0.45	2.65±0.54	2.1±0.9	19.4±7	231.4±16.1				
29±10	3.2±0.8	2.14±0.29	3.87±0.34	1.4±0.4	13.5±5	17.1±1.9				
240±33	10.5±2.4	8.23±0.75	9.87±0.89	2.1±0.7	112±23	555.9±19.9				
25±8	3.7±1.1	2.68±0.29	3.25±0.31	1.2±0.3	11.5±5	49.9±4.8				
298±52	23.2±8	6.58±0.68	8.36±0.72	2.1±0.8	56.4±13	368.9±32.8				
34.5±12	5.8±1.5	2.56±0.21	2.98±0.25	1.2±0.3	12.6±5	45.9±5.1				
317±30	12.3±3.1	5.68±0.62	7.79±0.69	2.4±0.9	61.8±15	287.3±18.1				
21±6	3.6±1.2	2.15±0.18	2.45±0.19	1.6±0.5	14.±6	18.9±2.6				

رخوي / قوقعة								
البوتاسيوم 40	الراديوم 226	اليورانوم238	اليورانوم234	السيزيوم 137	الرصاص210	210		
25.42	2.06	1.22	1.26	0.93	0.85			
10.76	0.37	1.84	2.04	2.47	1.81	:		
1.60	1.69	0.71	0.96	1.28	1.20	:		
7.41	2.13	2.57	2.11	1.29	1.08	:		
1.63	1.87	8.08	7.90	1.13	1.26	:		
23.00	1.83	4.96	3.56	1.95	1.40	:		
7.64	6.64	3.10	2.32	1.39	1.68			
8.59	1.09	2.18	1.85	1.35	0.75	:		
23.42	2.57	3.63	2.98	2.18	5.81	:		
15.95	2.84	3.60	2.70	1.57	1.52			
20.26	1.16	4.30	4.77	0.93	0.91			
12.21	0.91	2.67	1.84	1.68	1.34			
12.98	0.85	3.02	3.39	1.28	0.97			
9.15	1.29	2.99	3.43	1.46	1.61			
8.46	0.58	1.30	1.42	1.03	1.04			
17.50	1.09	5.84	4.86	1.03	1.23			
9.60	2.84	3.07	3.04	1.75	9.74			
8.51	4.00	2.57	2.81	1.62	4.48			
15.10	3.42	2.64	3.18	1.50	4.39			
7.69	3.89	2.62	2.54	2.04	8.88	:		
7.45	4.15	3.85	3.79	2.00	4.76	:		
15.24	2.31	1.28	1.20	2.29	1.95	:		
18.47	1.37	2.08	2.03	1.86	2.74			
20.95	2.95	1.36	1.19	1.45	1.15			
14.78	1.31	1.20	0.89	1.23	1.47			

الكادميوم ميكروغرام/ل	الزنك ميكروغرام/ل	الريصاص ميكروغرام/ل	النحاس ميكروغرام/ل	اليورانيوم 238 ميلي بكر/ل	اليورانيوم 234 ميلي بكر/ل	السييزيوم 137 ميلي بكر/ل					
<1	116.1±2.31	1.35 ± 0.03	<1	39.3±4.2	45.7±4.2	< 30					
				36.2±3.1	42.1±3.9	120±50					
				37.8±3.7	43.9±4.1	75					
<1	45.34±0.15	1.03 ± 0.10	2.96 ± 0.10	38.1±3.6	40.1±3.3	< 30					
				37.1±3.2	42.7±3.9	< 100					
				37.6±3.4	41.4±3.6	< 65					
<1	<10	<1	<1	37.4±3.9	43.2±4.1	< 30					
				39.2±3.5	43.9±4.1	< 30					
				38.3±3.7	43.6±4.1	< 30					
<1	62.31±1.08	6.35 ± 0.26	6.44 ± 0.16	40.2±4.5	46.9±4.9	< 30					
				38.1±3.4	41.8±3.8	< 30					
				39.2±4	44.4±4.4	< 30					

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رخوي / مياه						
اليورانيوم 238	اليورانيوم 234	السيزينيوم 137	الريصاص 210	بولونيوم 210		
$1.3 \times 10^2$	$1.4 \times 10^2$	$0.5 \times 10^2$	$5 \times 10^3$	$44 \times 10^3$		
$1.1 \times 10^2$	$1.2 \times 10^2$	$0.7 \times 10^2$	$8 \times 10^3$	$40 \times 10^3$		
$0.3 \times 10^2$	$4.6 \times 10^2$	$0.8 \times 10^2$	$8 \times 10^3$	$52 \times 10^3$		
$1.2 \times 10^2$	$1.3 \times 10^2$	$0.7 \times 10^2$	$7 \times 10^3$	$19 \times 10^3$		
$2.2 \times 10^2$	$2.1 \times 10^2$	$0.6 \times 10^2$	$8 \times 10^3$	$67 \times 10^3$		
$1.4 \times 10^2$	$1.4 \times 10^2$	$0.6 \times 10^2$	$7 \times 10^3$	$22 \times 10^3$		
$1.4 \times 10^2$	$1.5 \times 10^2$	$0.8 \times 10^2$	$11 \times 10^3$	$24 \times 10^3$		
$1.2 \times 10^2$	$1.2 \times 10^2$	$0.7 \times 10^2$	$6 \times 10^3$	$41 \times 10^3$		
$1.4 \times 10^2$	$1.1 \times 10^2$	$0.8 \times 10^2$	$14 \times 10^3$	$41 \times 10^3$		
$1.2 \times 10^2$	$1.1 \times 10^2$	$0.6 \times 10^2$	$9 \times 10^3$	$15 \times 10^3$		
$1.0 \times 10^2$	$1.0 \times 10^2$	$0.5 \times 10^2$	$5 \times 10^3$	$8 \times 10^3$		
$1.3 \times 10^2$	$1.1 \times 10^2$	$0.7 \times 10^2$	$7 \times 10^3$	$9 \times 10^3$		
$1.0 \times 10^2$	$1.1 \times 10^2$	$0.6 \times 10^2$	$5 \times 10^3$	$36 \times 10^3$		
$1.4 \times 10^2$	$1.6 \times 10^2$	$0.7 \times 10^2$	$10 \times 10^3$	$49 \times 10^3$		
$1.4 \times 10^2$	$1.4 \times 10^2$	$0.7 \times 10^2$	$9 \times 10^3$	$34 \times 10^3$		
$2.0 \times 10^2$	$1.7 \times 10^2$	$0.5 \times 10^2$	$8 \times 10^3$	$39 \times 10^3$		
$2.2 \times 10^2$	$2.3 \times 10^2$	$0.7 \times 10^2$	$45 \times 10^3$	$66 \times 10^3$		
$1.8 \times 10^2$	$2.0 \times 10^2$	$0.7 \times 10^2$	$23 \times 10^3$	$38 \times 10^3$		
$1.5 \times 10^2$	$1.8 \times 10^2$	$0.8 \times 10^2$	$24 \times 10^3$	$34 \times 10^3$		
$2.2 \times 10^2$	$2.2 \times 10^2$	$0.9 \times 10^2$	$48 \times 10^3$	$115 \times 10^3$		
$2.8 \times 10^2$	$3.0 \times 10^2$	$0.7 \times 10^2$	$27 \times 10^3$	$90 \times 10^3$		
$1.0 \times 10^2$	$0.9 \times 10^2$	$0.5 \times 10^2$	$8 \times 10^3$	$42 \times 10^3$		
$1.0 \times 10^2$	$1.0 \times 10^2$	$0.7 \times 10^2$	$18 \times 10^3$	$34 \times 10^3$		
$1.2 \times 10^2$	$1.2 \times 10^2$	$0.5 \times 10^2$	$7 \times 10^3$	$9 \times 10^3$		
$0.6 \times 10^2$	$0.7 \times 10^2$	$0.5 \times 10^2$	$7 \times 10^3$	$23 \times 10^3$		

(6)

الكادميوم Cd ميكرو غرام/غرام	الزنك Zn ميكرو غرام/غرام	الرصاص Pb ميكرو غرام/غرام	النحاس Cu ميكرو غرام/غرام	نوع العينة ري		
1.8±0.02	160±1.2	5.0±0.09	146±1.3	رخوي		
1.0±0.02	7.4±0.06	< 0.2	5.0±0.05	قوينة		
< 0.25	143±1.9	0.7±0.04	54.5±1.2	رخوي		
0.3±0.01	20.8±0.2	< 0.2	8.7±0.06	قوينة		
1.4±0.05	211±1.4	0.4±0.02	119±1.0	رخوي		
< 0.25	14.7±0.1	< 0.2	6.8±0.2	قوينة		
1.1±0.09	62.6±0.4	1.0±0.01	21.5±0.2	رخوي		
< 0.25	6.6±0.1	< 0.2	3.9±0.03	قوينة		
< 0.25	42.8±0.4	3.6±0.03	46.8±0.5	رخوي		
0.6±0.02	9.3±0.2	< 0.2	4.8±0.1	قوينة		
0.4±0.05	46.9±0.3	0.5±0.02	40.0±0.4	رخوي		
< 0.25	3.8±0.02	< 0.2	1.8±0.03	قوينة		
0.4±0.01	53±0.7	0.5±0.03	53.2±0.5	رخوي		
0.4±0.01	7.7±0.08	< 0.2	4.4±0.04	قوينة		
1.1±0.01	64.8±0.5	2.4±0.05	29.8±0.52	رخوي		
1.1±0.03	95.4±1.5	1.8±0.06	29.0±0.4	قوينة		
3.0±0.06	113±1.0	0.3±0.01	17.3±0.1	رخوي		
< 0.25	6.4±0.05	< 0.2	1.3±0.03	قوينة		
1.1±0.05	68.9±0.6	0.5±0.01	6.3±0.3	رخوي		
< 0.25	13.5±0.1	< 0.2	4.9±0.2	قوينة		
1.6±0.05	59.3±0.8	< 0.2	7.5±0.2	رخوي		
< 0.25	8.2±0.1	< 0.2	1.9±0.01	قوينة		
2.5±0.03	44.9±0.4	0.5±0.01	6.5±0.1	رخوي		
< 0.25	8.1±0.1	< 0.2	2.3±0.03	قوينة		
2.2±0.07	99.7±0.4	0.4±0.01	147±1.4	رخوي		
< 0.25	52.0±0.06	0.6±0.02	32±0.4	قوينة		
6.8±0.2	437±11	2.9±0.2	228±3.9	رخوي		
1.7±0.07	115.3±5.4	0.80±0.01	26.1±1.0	قوينة		
3.6±0.03	469±4.2	1.0±0.04	74.4±0.5	رخوي		
0.7±0.02	108±1.2	< 0.2	18.4±0.2	قوينة		
2.0±0.08	180±2.7	0.4±0.01	54.7±0.5	رخوي		
0.5±0.01	77.6±1.0	< 0.2	26.1±0.03	قوينة		

16.8±0.2	152±6.1	1.0±0.04	30±0.4	رخوی		
0.2±0.01	6.7±0.04	< 0.2	1.6±0.1	فوقه		
3.9±0.04	139±2	1.0±0.2	120±0.6	رخوی		
1.0±0.02	48.7±0.3	0.6±0.02	19.8±.02	فوقه		
2.9±0.1	139±0.6	1.1±0.2	21.5±0.4	رخوی		
< 0.25	14.3±0.2	0.7±0.01	3.5±0.04	فوقه		
4.6±0.05	82.1±1.4	0.7±0.02	3.9±0.3	رخوی		
< 0.25	13.9±0.1	< 0.2	3.8±.02	فوقه		
6.5±0.2	138.2±0.7	1.8±0.2	344±4.6	رخوی		
0.3±0.01	7.0±0.05	1.3±0.2	2.5±0.02	فوقه		
4.6±0.08	3404±129	1.0±0.04	113±1.0	رخوی		
0.3±0.01	39±0.3	< 0.2	6.7±0.2	فوقه		

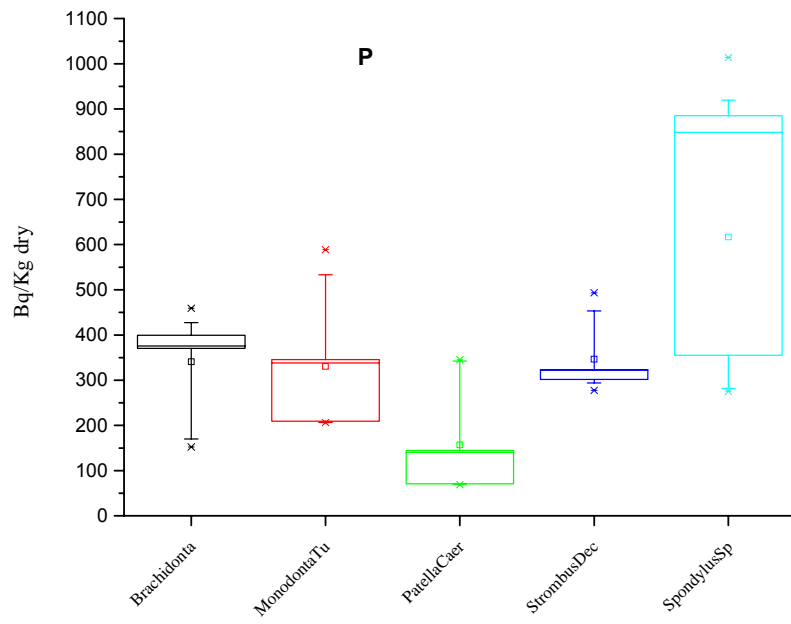
رځوي/ فوڤعه					
Cd الكادميوم مايكرو غرام/ غرام	Zn الزنك مايكرو غرام/ غرام	Pb الرصاص مايكرو غرام/ غرام	Cu النحاس مايكرو غرام/ غرام		
1.80	21.62	25	29.20		
0.83	6.88	3.5	6.26		
5.60	14.35	2	17.50		
4.40	9.48	5	5.51		
2.40	4.60	18	9.75		
1.60	12.34	2.5	22.22		
1.00	6.88	2.5	12.09		
1.00	0.68	1.33	1.03		
12.00	17.66	1.5	13.31		
4.40	5.10	2.5	1.29		
6.40	7.23	1.5	3.95		
10.00	5.54	2.5	2.83		
8.80	19.17	0.67	4.59		
4.00	3.79	3.3	8.74		
5.14	4.34	5	4.04		
4.00	2.32	2	2.10		
84.00	22.69	5	18.75		
3.90	2.85	1.67	6.06		
11.60	9.72	1.57	6.14		
18.40	5.91	3.5	1.03		
21.67	19.74	0.72	137.60		
15.30	87.28	5	16.87		

رځوي / مياڼه					
Cd الكادميوم مايکرو غرام / غرام	Zn الزنک مايکرو غرام / غرام	Pb الرصاص مايکرو غرام / غرام	Cu النحاس مکرو غرام / غرام		
0.2×10 <sup>3</sup>	1.4×10 <sup>3</sup>	3.0×10 <sup>3</sup>	15×10 <sup>4</sup>		
0.3×10 <sup>3</sup>	3.2×10 <sup>3</sup>	0.7×10 <sup>3</sup>	2.0×10 <sup>4</sup>		
1.4×10 <sup>3</sup>	21×10 <sup>3</sup>	0.4×10 <sup>3</sup>	12×10 <sup>4</sup>		
1.1×10 <sup>3</sup>	1.0×10 <sup>3</sup>	0.2×10 <sup>3</sup>	0.3×10 <sup>4</sup>		
0.06×10 <sup>3</sup>	0.4×10 <sup>3</sup>	2.0×10 <sup>3</sup>	5.0×10 <sup>4</sup>		
0.4×10 <sup>3</sup>	1.0×10 <sup>3</sup>	0.5×10 <sup>3</sup>	1.0×10 <sup>4</sup>		
0.4×10 <sup>3</sup>	5.0×10 <sup>3</sup>	0.5×10 <sup>3</sup>	5.0×10 <sup>4</sup>		
1.1×10 <sup>3</sup>	1.0×10 <sup>3</sup>	0.4×10 <sup>3</sup>	0.5×10 <sup>4</sup>		
0.3×10 <sup>3</sup>	1.0×10 <sup>3</sup>	0.2×10 <sup>3</sup>	2.0×10 <sup>4</sup>		
1.1×10 <sup>3</sup>	1.5×10 <sup>3</sup>	0.5×10 <sup>3</sup>	0.2×10 <sup>4</sup>		
1.6×10 <sup>3</sup>	6.0×10 <sup>3</sup>	0.3×10 <sup>3</sup>	0.8×10 <sup>4</sup>		
2.5×10 <sup>3</sup>	0.7×10 <sup>3</sup>	0.08×10 <sup>3</sup>	0.1×10 <sup>4</sup>		
0.2×10 <sup>3</sup>	0.9×10 <sup>3</sup>	0.2×10 <sup>3</sup>	15×10 <sup>4</sup>		
7.0×10 <sup>3</sup>	9.8×10 <sup>3</sup>	3.0×10 <sup>3</sup>	8.0×10 <sup>4</sup>		
4.0×10 <sup>3</sup>	47×10 <sup>3</sup>	1.0×10 <sup>3</sup>	7×10 <sup>4</sup>		
2.0×10 <sup>3</sup>	3×10 <sup>3</sup>	0.07×10 <sup>3</sup>	0.9×10 <sup>4</sup>		
1.7×10 <sup>3</sup>	1.3×10 <sup>3</sup>	0.5×10 <sup>3</sup>	3.0×10 <sup>4</sup>		
4.0×10 <sup>3</sup>	3.0×10 <sup>3</sup>	1.0×10 <sup>3</sup>	4.0×10 <sup>4</sup>		
3.0×10 <sup>3</sup>	14×10 <sup>3</sup>	1.0×10 <sup>3</sup>	2.0×10 <sup>4</sup>		
5.0×10 <sup>3</sup>	1.3×10 <sup>3</sup>	0.1×10 <sup>3</sup>	0.07×10 <sup>4</sup>		
6.5×10 <sup>3</sup>	2.2×10 <sup>3</sup>	0.2×10 <sup>3</sup>	6.0×10 <sup>4</sup>		
5.0×10 <sup>3</sup>	76×10 <sup>3</sup>	1.0×10 <sup>3</sup>	4.0×10 <sup>4</sup>		

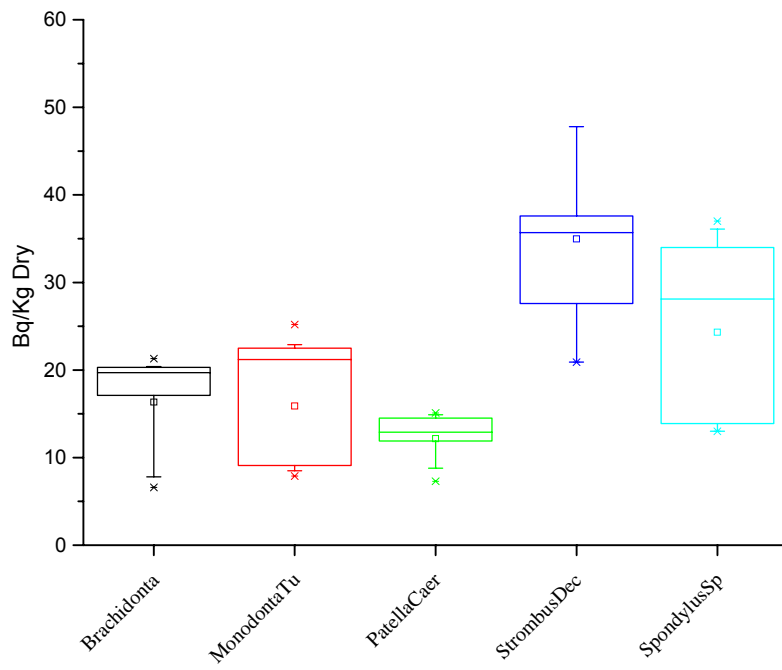


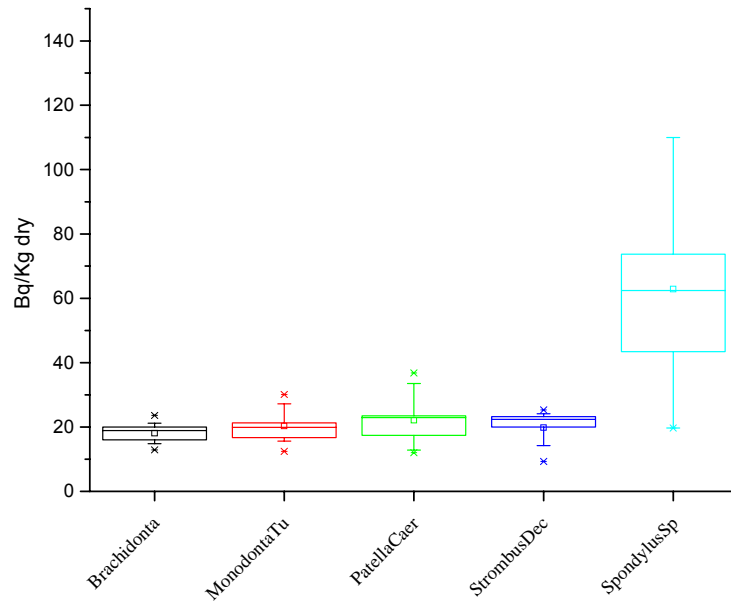
قوعدة / مباء						
البورانيوم 238	البورانيوم 234	السيزيوم 137	الرصاص 210	البولونيوم 210		
$1.1 \times 10^2$	$1.1 \times 10^2$	$0.5 \times 10^2$	$6.5 \times 10^3$	$2.4 \times 10^3$		
$0.6 \times 10^2$	$0.6 \times 10^2$	$0.3 \times 10^2$	$4.4 \times 10^3$	$1.8 \times 10^3$		
$0.4 \times 10^2$	$0.5 \times 10^2$	$0.6 \times 10^2$	$7.0 \times 10^3$	$2.5 \times 10^3$		
$0.5 \times 10^2$	$0.6 \times 10^2$	$0.5 \times 10^2$	$6.1 \times 10^3$	$0.9 \times 10^3$		
$0.3 \times 10^2$	$0.3 \times 10^2$	$0.5 \times 10^2$	$6.5 \times 10^3$	$2.9 \times 10^3$		
$0.3 \times 10^2$	$0.4 \times 10^2$	$0.3 \times 10^2$	$5.2 \times 10^3$	$0.9 \times 10^3$		
$0.5 \times 10^2$	$0.6 \times 10^2$	$0.6 \times 10^2$	$6.6 \times 10^3$	$2.6 \times 10^3$		
$0.6 \times 10^2$	$0.7 \times 10^2$	$0.5 \times 10^2$	$7.4 \times 10^3$	$1.1 \times 10^3$		
$0.4 \times 10^2$	$0.4 \times 10^2$	$0.4 \times 10^2$	$2.4 \times 10^3$	$1.4 \times 10^3$		
$0.3 \times 10^2$	$0.4 \times 10^2$	$0.4 \times 10^2$	$6.1 \times 10^3$	$1.5 \times 10^3$		
$0.2 \times 10^2$	$0.2 \times 10^2$	$0.5 \times 10^2$	$5.3 \times 10^3$	$1.7 \times 10^3$		
$0.5 \times 10^2$	$0.6 \times 10^2$	$0.4 \times 10^2$	$5.2 \times 10^3$	$1.0 \times 10^3$		
$0.3 \times 10^2$	$0.3 \times 10^2$	$0.5 \times 10^2$	$4.8 \times 10^3$	$3.8 \times 10^3$		
$0.5 \times 10^2$	$0.5 \times 10^2$	$0.5 \times 10^2$	$6.1 \times 10^3$	$5.3 \times 10^3$		
$1.0 \times 10^2$	$1.0 \times 10^2$	$0.6 \times 10^2$	$8.6 \times 10^3$	$4.3 \times 10^3$		
$0.4 \times 10^2$	$0.4 \times 10^2$	$0.5 \times 10^2$	$6.5 \times 10^3$	$2.5 \times 10^3$		
$0.7 \times 10^2$	$0.8 \times 10^2$	$0.4 \times 10^2$	$4.6 \times 10^3$	$6.0 \times 10^3$		
$0.7 \times 10^2$	$0.7 \times 10^2$	$0.4 \times 10^2$	$5.1 \times 10^3$	$4.8 \times 10^3$		
$0.6 \times 10^2$	$0.6 \times 10^2$	$0.5 \times 10^2$	$5.6 \times 10^3$	$2.2 \times 10^3$		
$0.9 \times 10^2$	$0.9 \times 10^2$	$0.4 \times 10^2$	$5.4 \times 10^3$	$4.2 \times 10^3$		
$0.7 \times 10^2$	$0.8 \times 10^2$	$0.4 \times 10^2$	$5.7 \times 10^3$	$3.4 \times 10^3$		
$0.7 \times 10^2$	$0.7 \times 10^2$	$0.2 \times 10^2$	$3.9 \times 10^3$	$1.5 \times 10^3$		
$0.5 \times 10^2$	$0.5 \times 10^2$	$0.4 \times 10^2$	$6.5 \times 10^3$	$2.0 \times 10^3$		
$0.9 \times 10^2$	$1.0 \times 10^2$	$0.4 \times 10^2$	$6.3 \times 10^3$	$2.2 \times 10^3$		
$0.5 \times 10^2$	$0.7 \times 10^2$	$0.4 \times 10^2$	$5.0 \times 10^3$	$1.3 \times 10^3$		

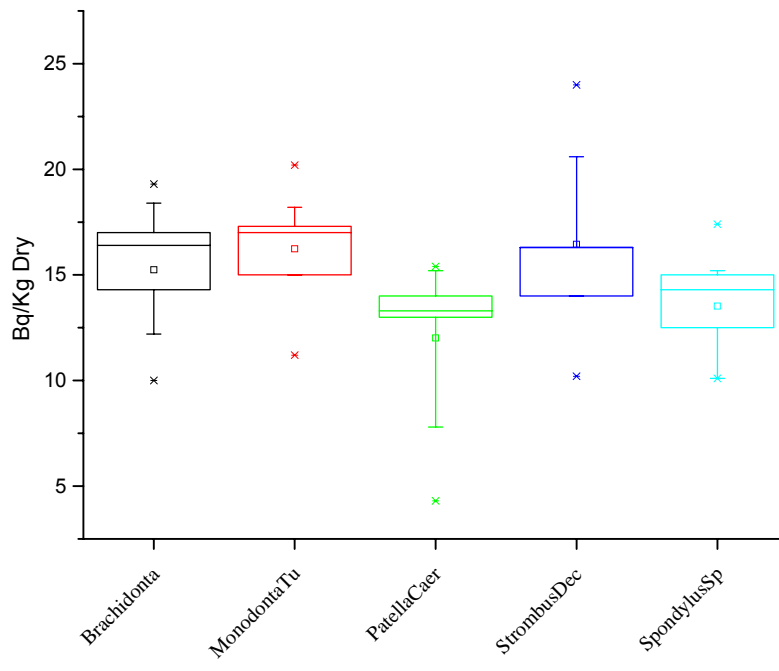
فوققة / مياه			
Cd الكادميوم مايكرو غرام / غرام	Zn الزنك مايكرو غرام / غرام	Pb الرصاص مايكرو غرام / غرام	Cu النحاس مايكرو غرام / غرام
10×10 <sup>2</sup>	0.6×10 <sup>2</sup>	1.0×10 <sup>2</sup>	5.0×10 <sup>3</sup>
3.0×10 <sup>2</sup>	4.6×10 <sup>2</sup>	2.0×10 <sup>2</sup>	3.0×10 <sup>3</sup>
2.5×10 <sup>2</sup>	15×10 <sup>2</sup>	2.0×10 <sup>2</sup>	7.0×10 <sup>3</sup>
2.5×10 <sup>2</sup>	1.1×10 <sup>2</sup>	0.3×10 <sup>2</sup>	0.7×10 <sup>3</sup>
2.5×10 <sup>2</sup>	0.8×10 <sup>2</sup>	1.0×10 <sup>2</sup>	5.0×10 <sup>3</sup>
2.5×10 <sup>2</sup>	0.8×10 <sup>2</sup>	2.0×10 <sup>2</sup>	0.6×10 <sup>3</sup>
4.0×10 <sup>2</sup>	7.7×10 <sup>2</sup>	2.0×10 <sup>2</sup>	4.4×10 <sup>3</sup>
11×10 <sup>2</sup>	15×10 <sup>2</sup>	3.0×10 <sup>2</sup>	5.0×10 <sup>3</sup>
2.5×10 <sup>2</sup>	0.6×10 <sup>2</sup>	1.0×10 <sup>2</sup>	1.3×10 <sup>3</sup>
2.5×10 <sup>2</sup>	3.0×10 <sup>2</sup>	0.2×10 <sup>2</sup>	1.6×10 <sup>3</sup>
2.5×10 <sup>2</sup>	8.0×10 <sup>2</sup>	0.2×10 <sup>2</sup>	1.9×10 <sup>3</sup>
2.5×10 <sup>2</sup>	1.3×10 <sup>2</sup>	0.3×10 <sup>2</sup>	0.4×10 <sup>3</sup>
2.5×10 <sup>2</sup>	0.5×10 <sup>2</sup>	3.0×10 <sup>2</sup>	32×10 <sup>3</sup>
17×10 <sup>2</sup>	26×10 <sup>2</sup>	8.0×10 <sup>2</sup>	8.7×10 <sup>3</sup>
7.0×10 <sup>2</sup>	108×10 <sup>2</sup>	2.0×10 <sup>2</sup>	18×10 <sup>3</sup>
5.0×10 <sup>2</sup>	13×10 <sup>2</sup>	0.3×10 <sup>2</sup>	4.4×10 <sup>3</sup>
2.0×10 <sup>2</sup>	0.6×10 <sup>2</sup>	1.0×10 <sup>2</sup>	1.6×10 <sup>3</sup>
10×10 <sup>2</sup>	11×10 <sup>2</sup>	6.0×10 <sup>2</sup>	6.6×10 <sup>3</sup>
2.5×10 <sup>2</sup>	14×10 <sup>2</sup>	7.0×10 <sup>2</sup>	3.5×10 <sup>3</sup>
2.5×10 <sup>2</sup>	2.3×10 <sup>2</sup>	0.3×10 <sup>2</sup>	0.6×10 <sup>3</sup>
3.0×10 <sup>2</sup>	1.1×10 <sup>2</sup>	3.0×10 <sup>2</sup>	0.4×10 <sup>3</sup>
3.0×10 <sup>2</sup>	8.7×10 <sup>2</sup>	2.0×10 <sup>2</sup>	2.2×10 <sup>3</sup>



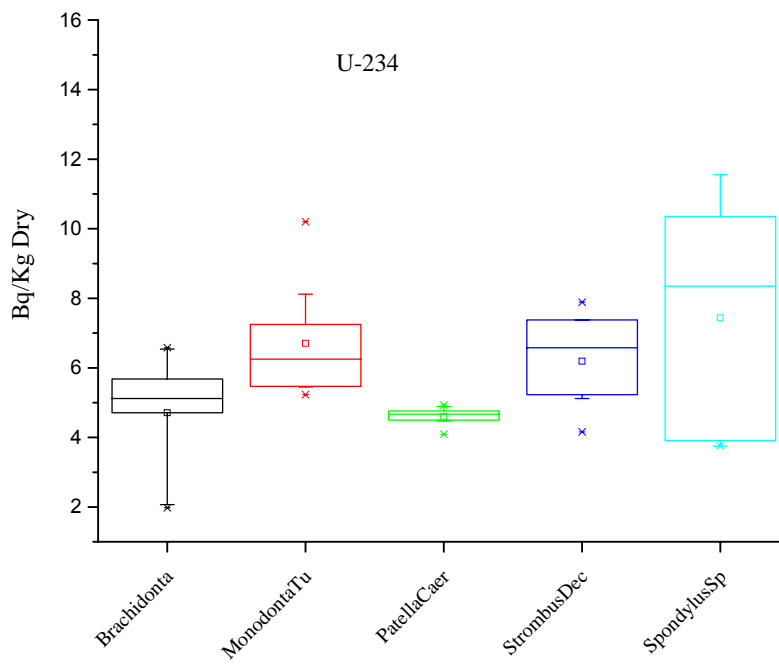
210 (1)

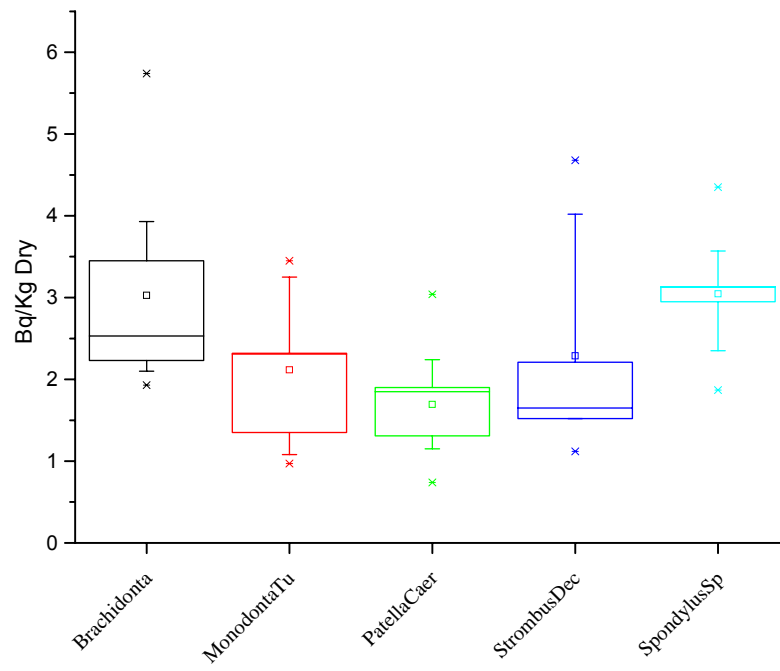


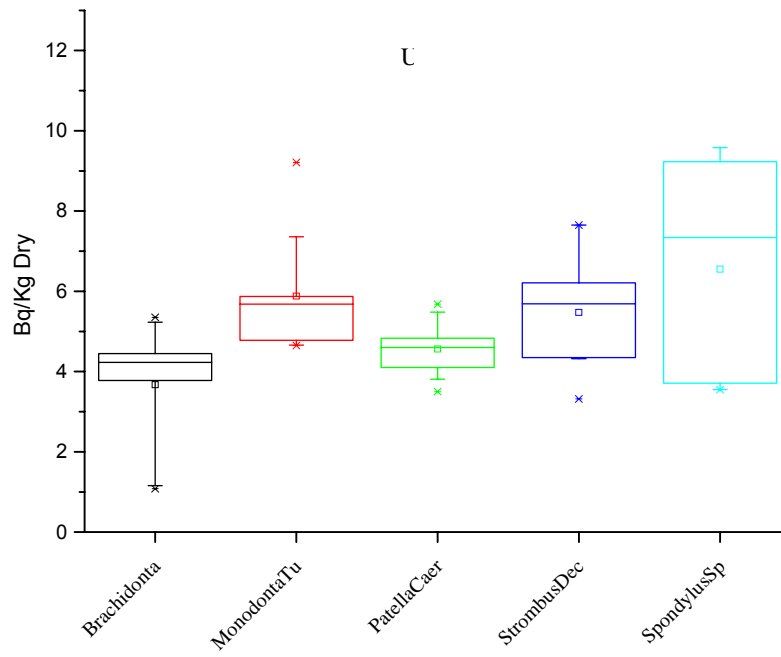




210 (4)

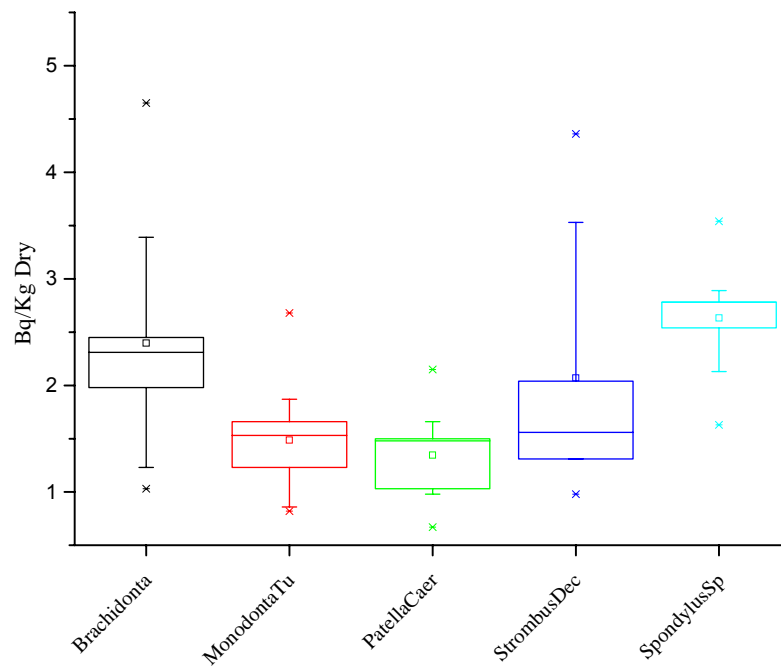




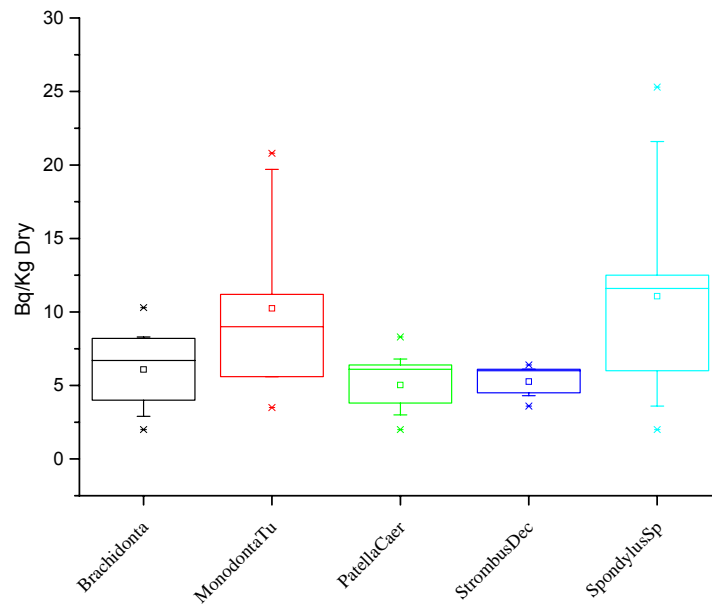


238

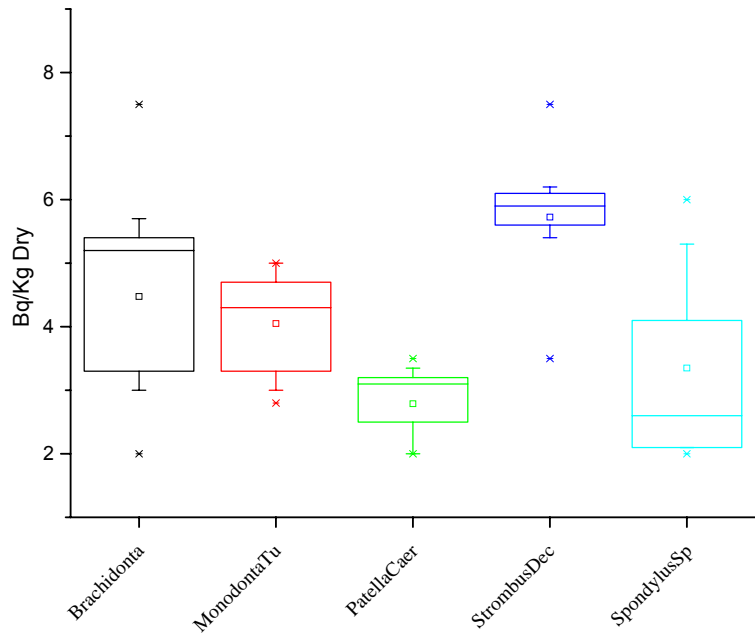
(7)



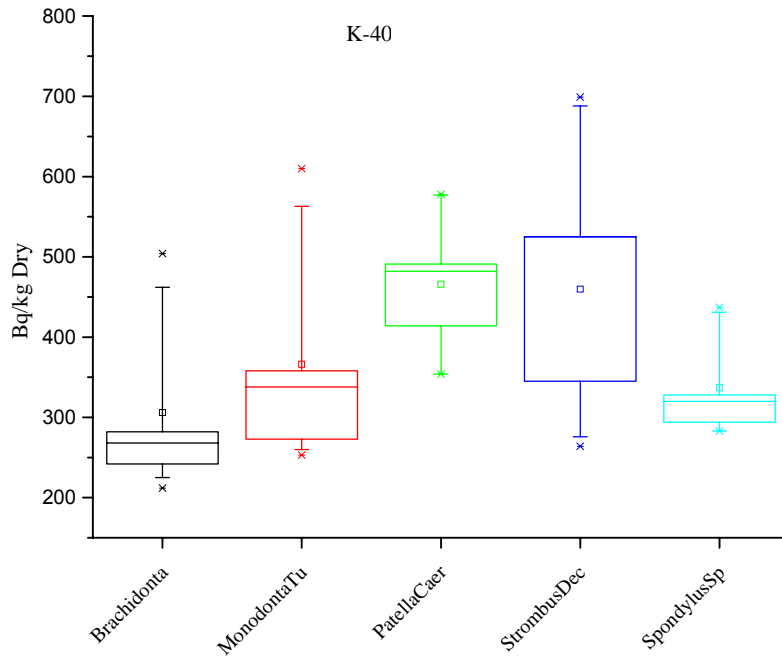
55

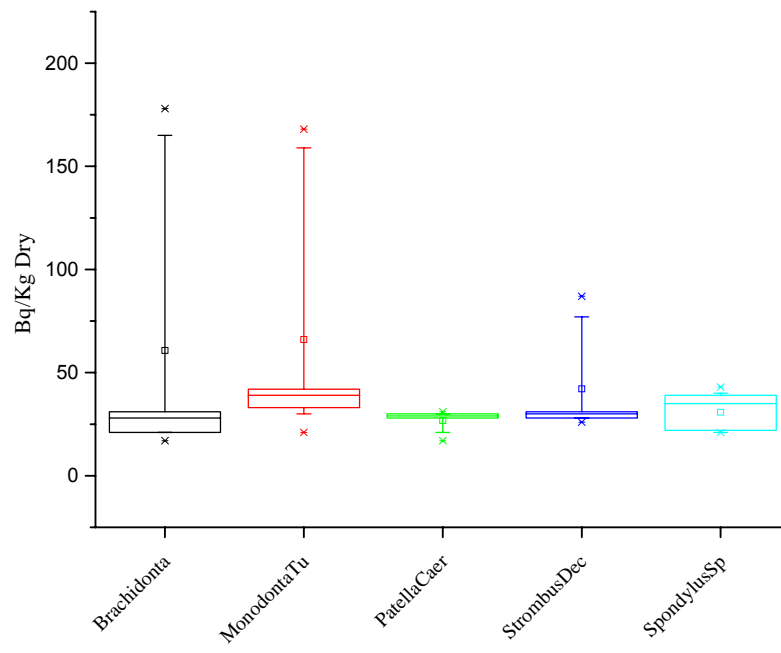


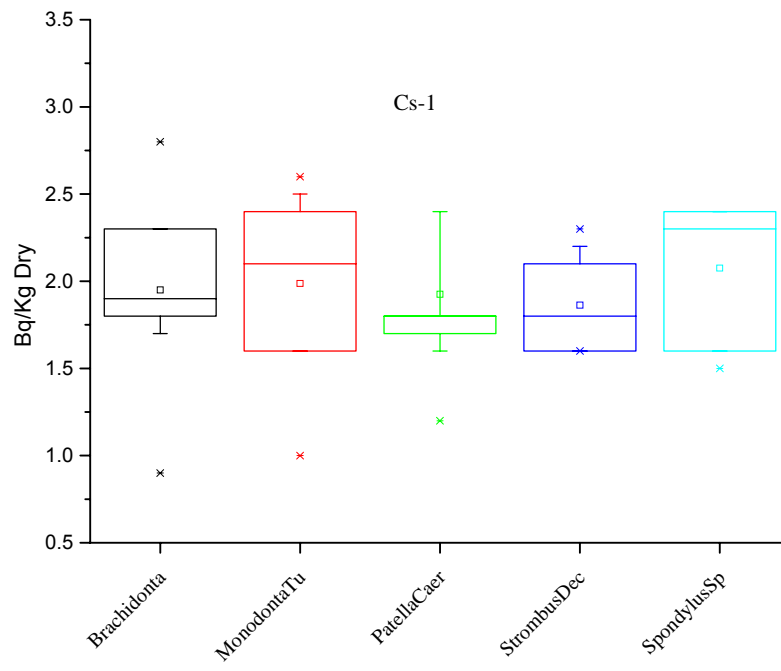




226 (10)

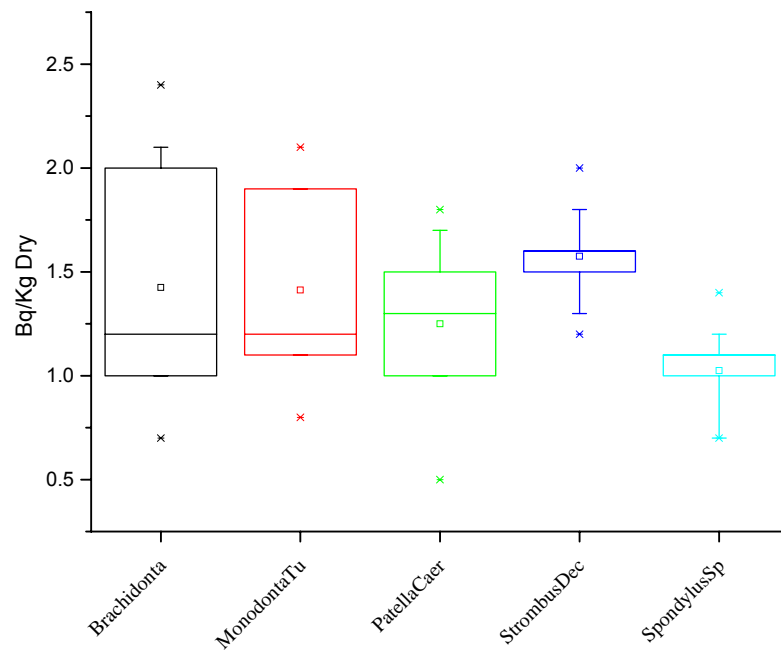


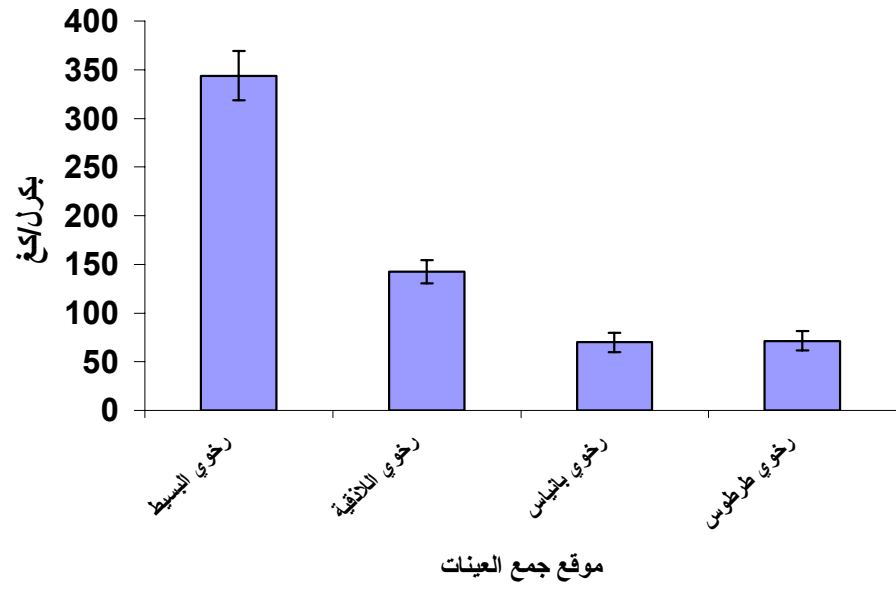




137

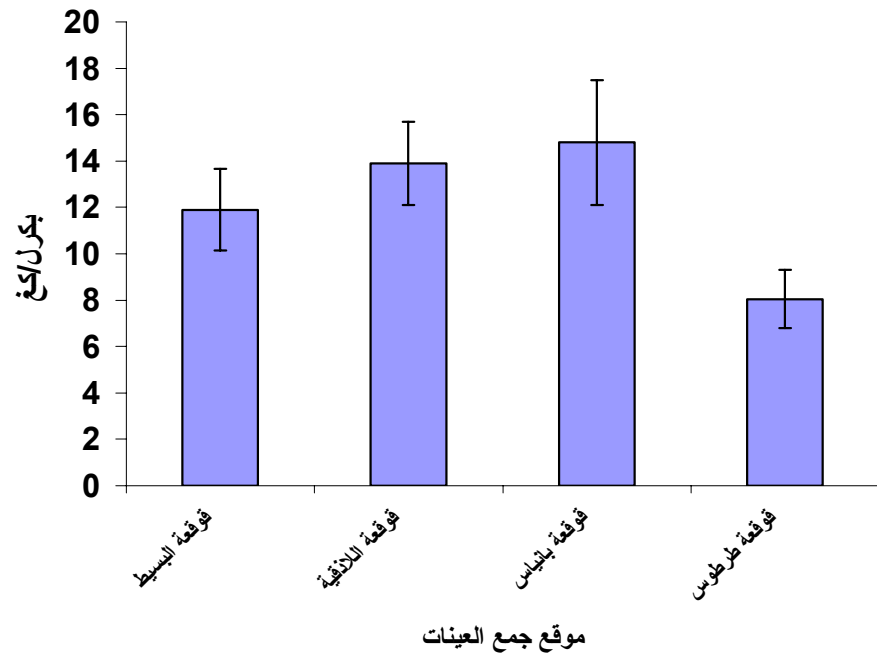
(13)



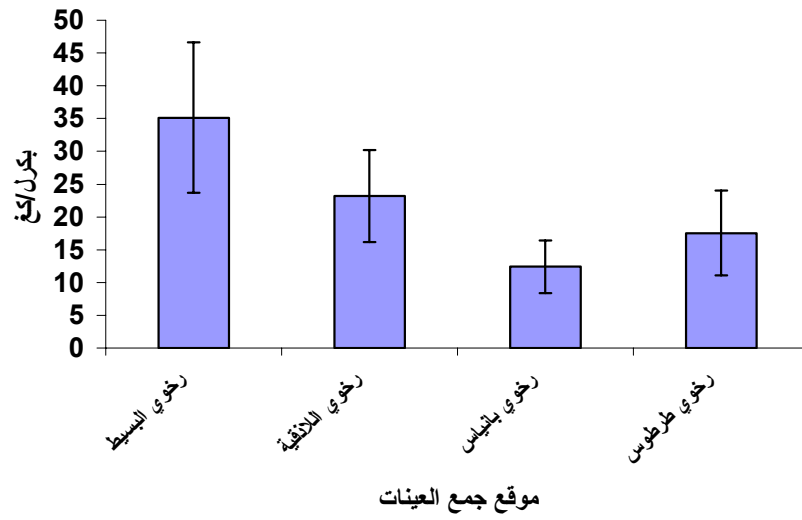


210-

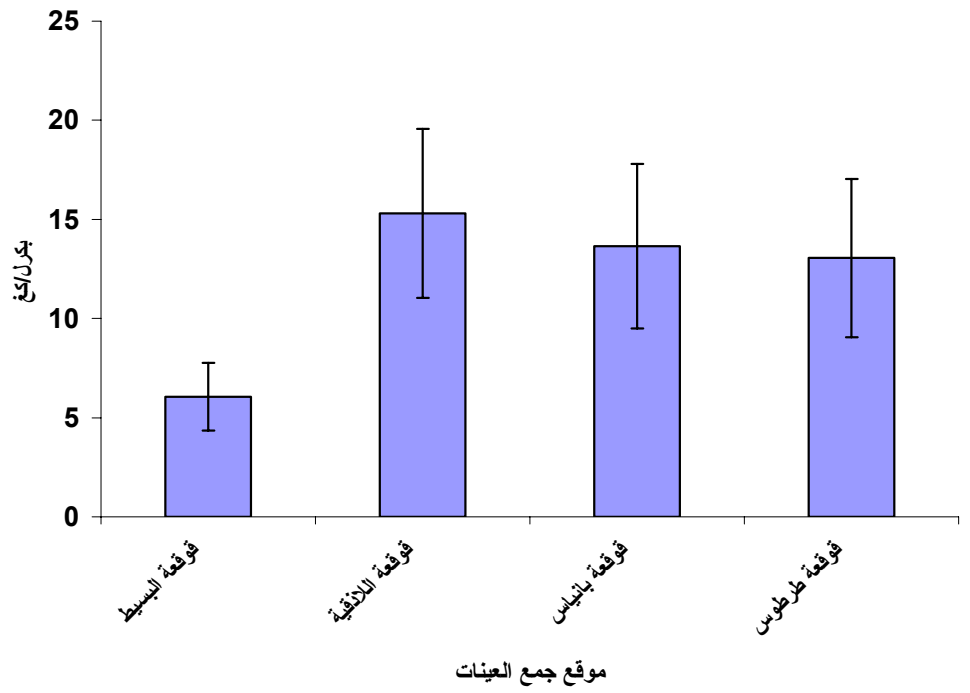
(15)



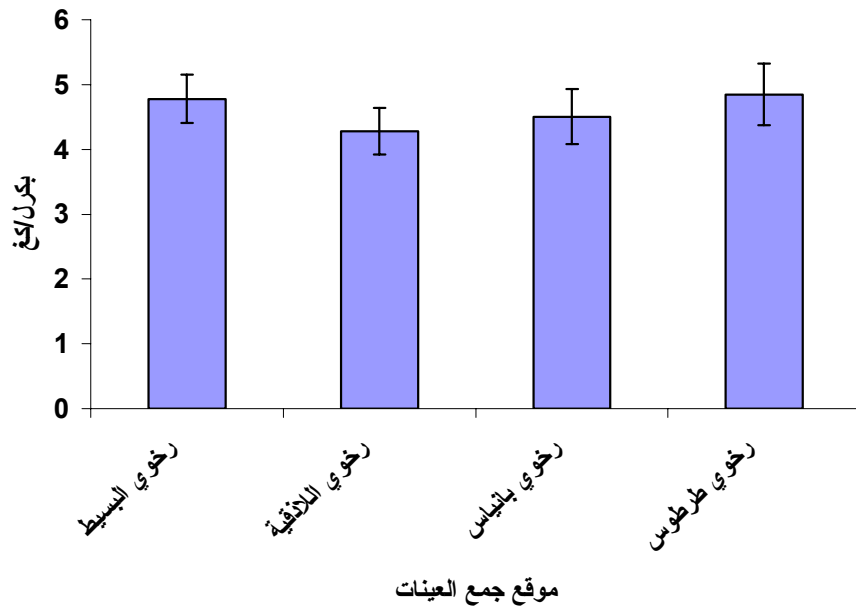
210- (16)

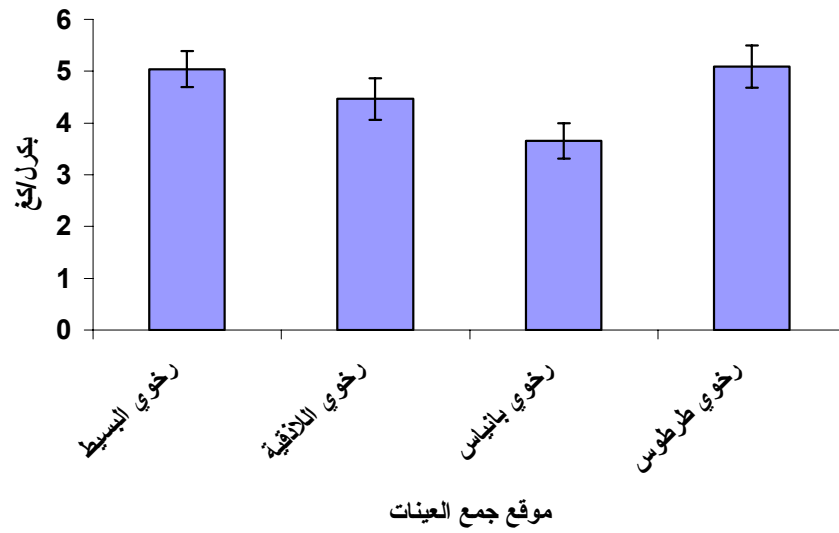
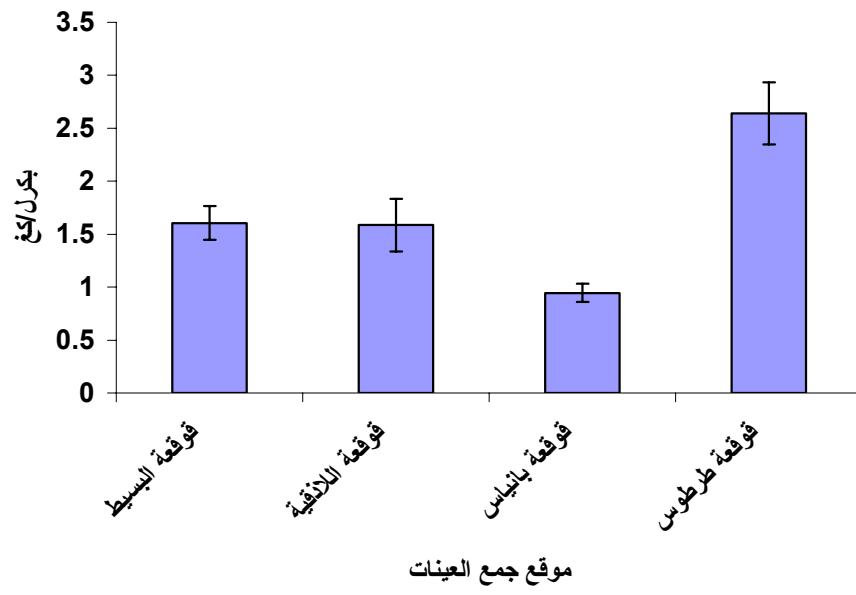


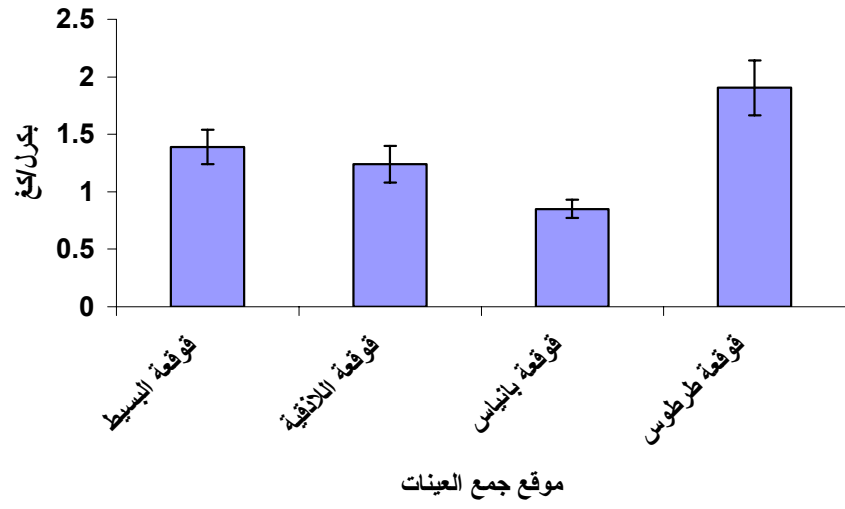
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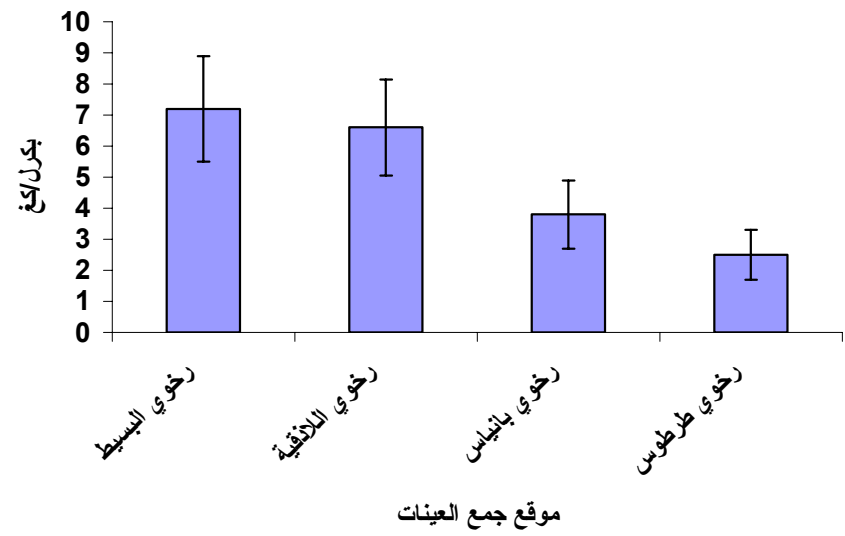






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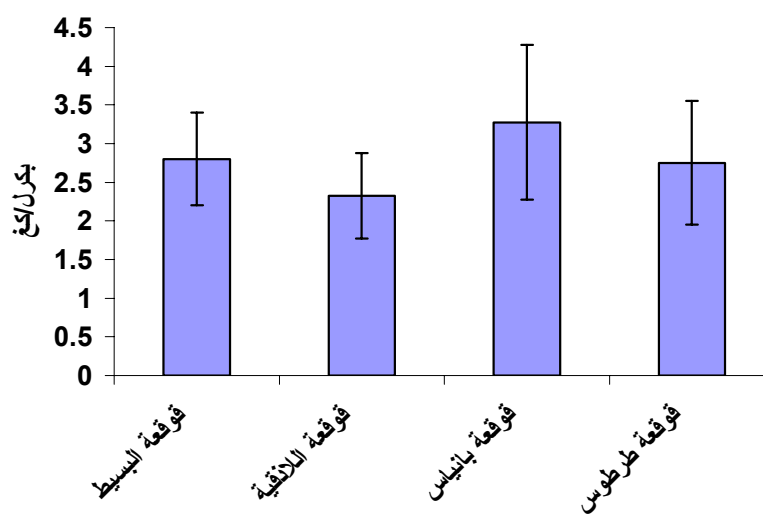


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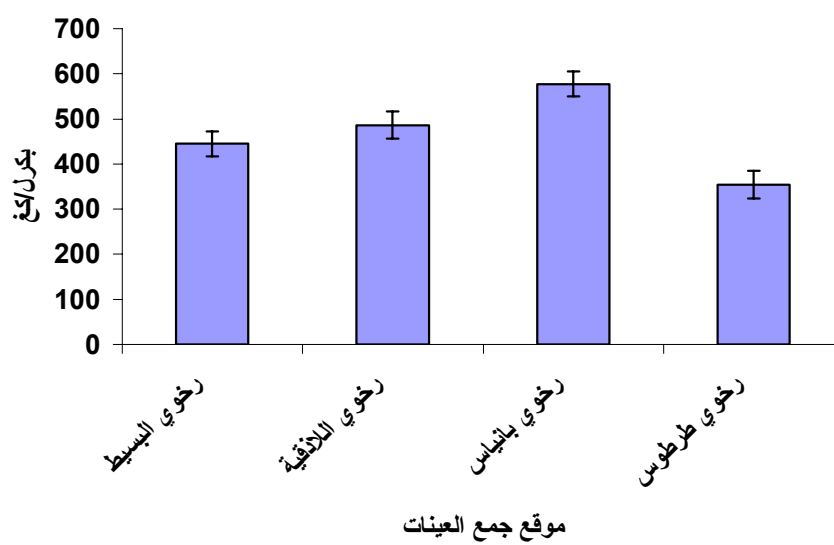


باتيلا فوقعة



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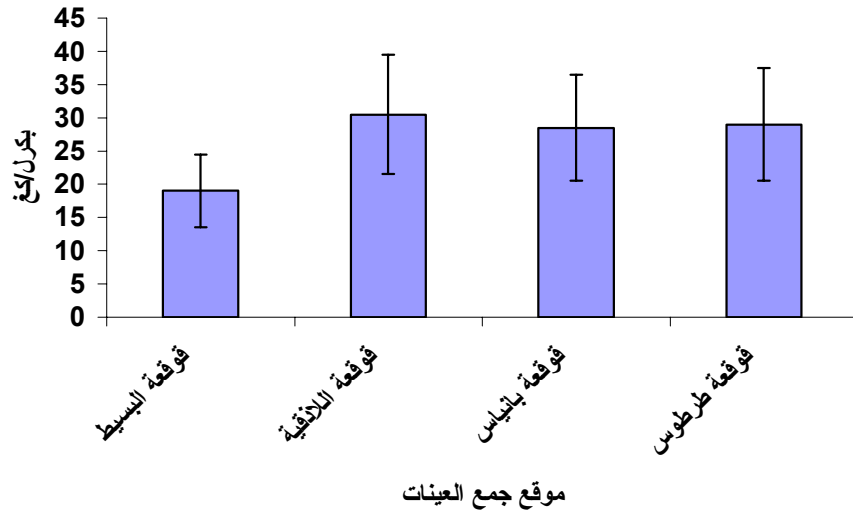
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موقع جمع العينات

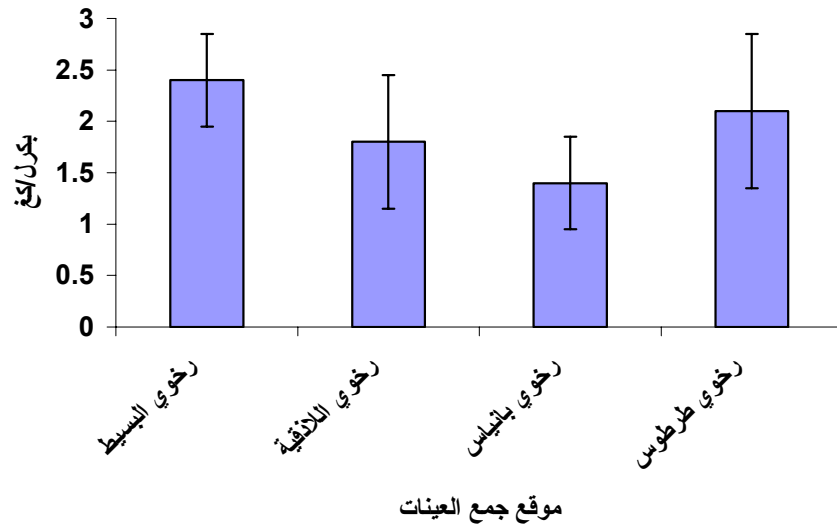
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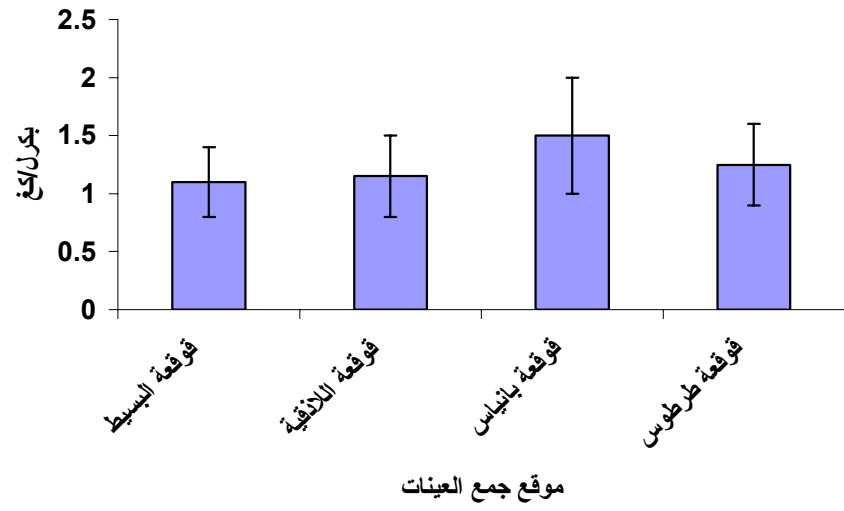
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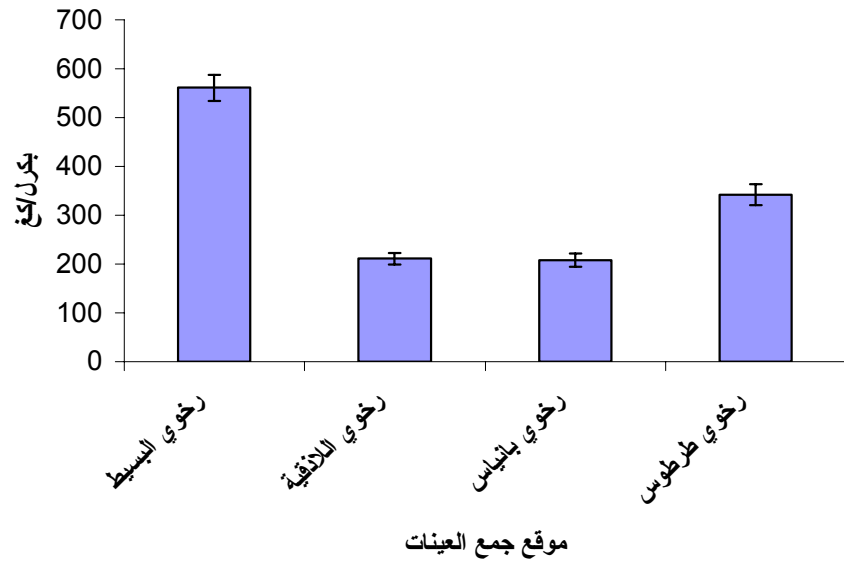
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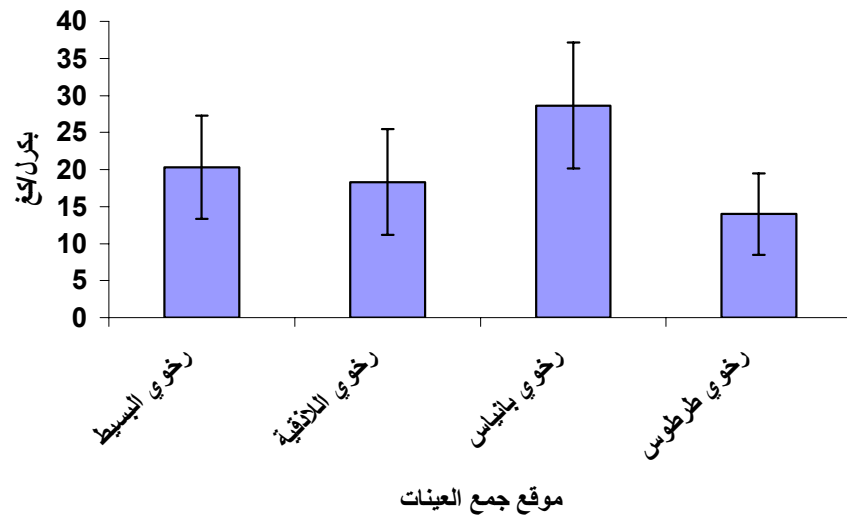
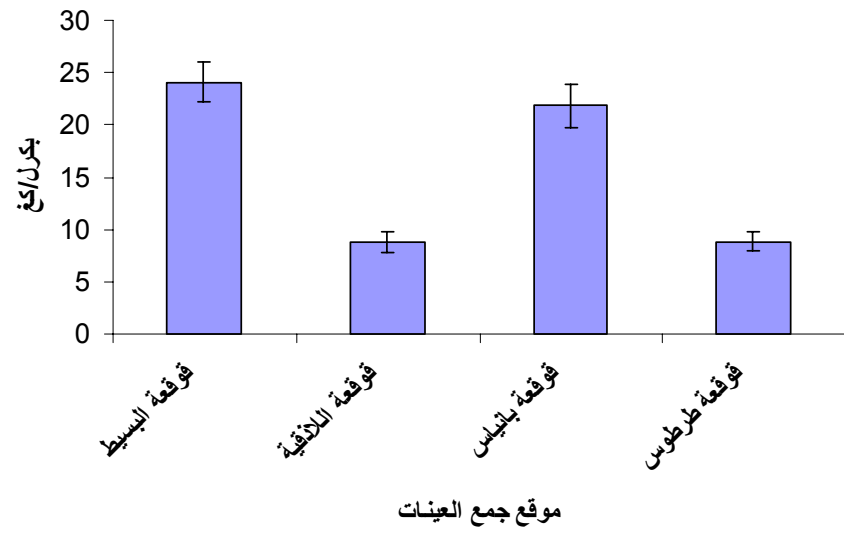
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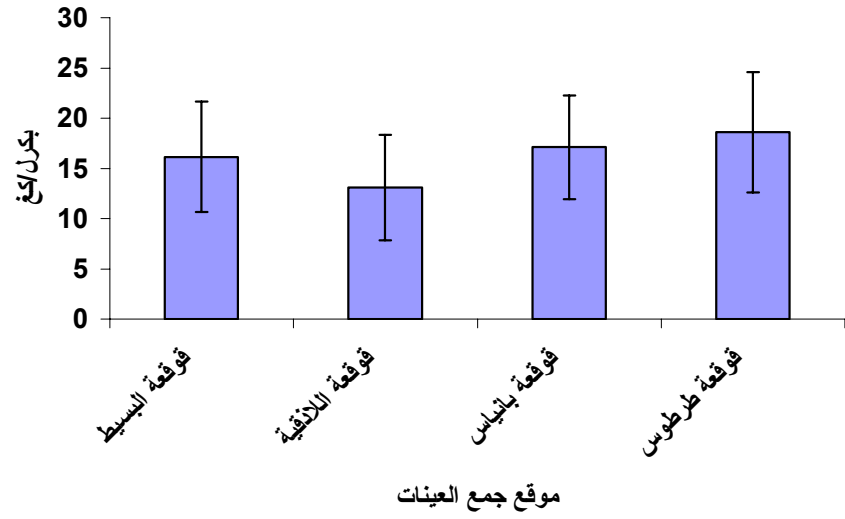


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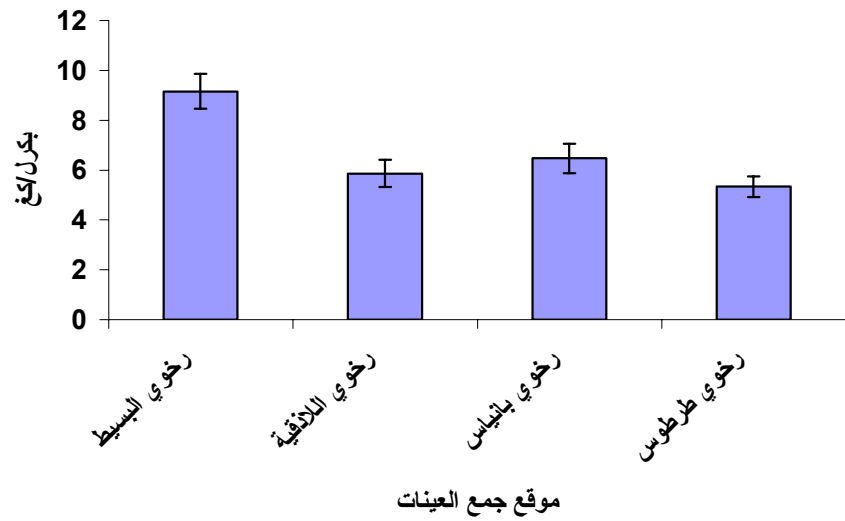






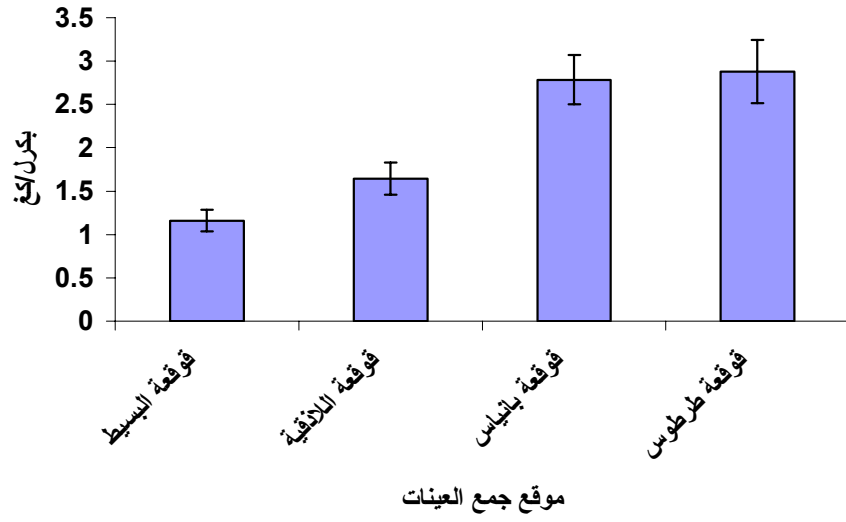
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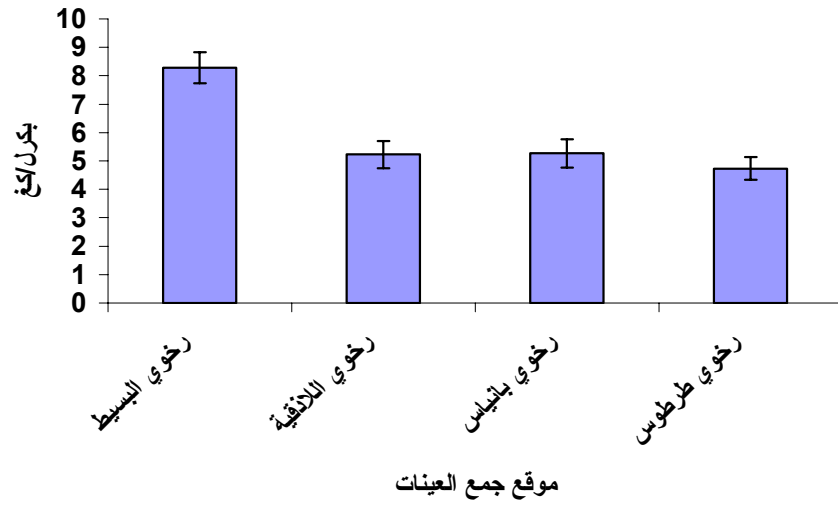
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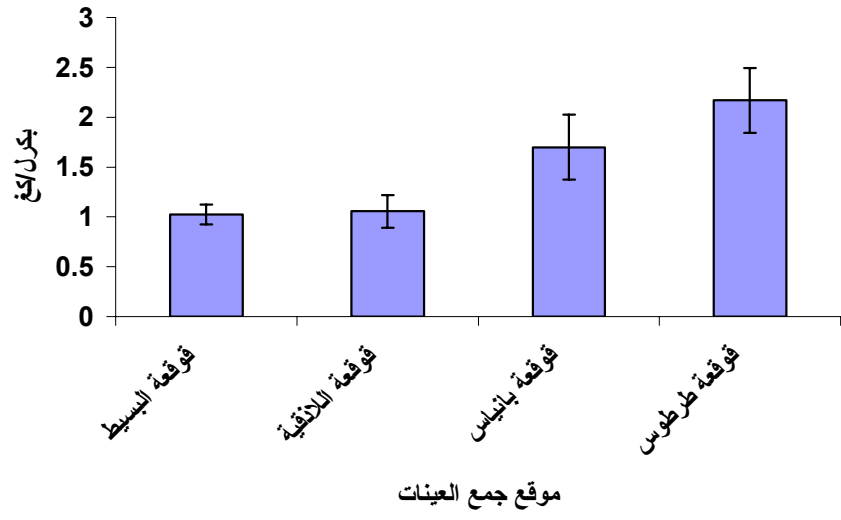
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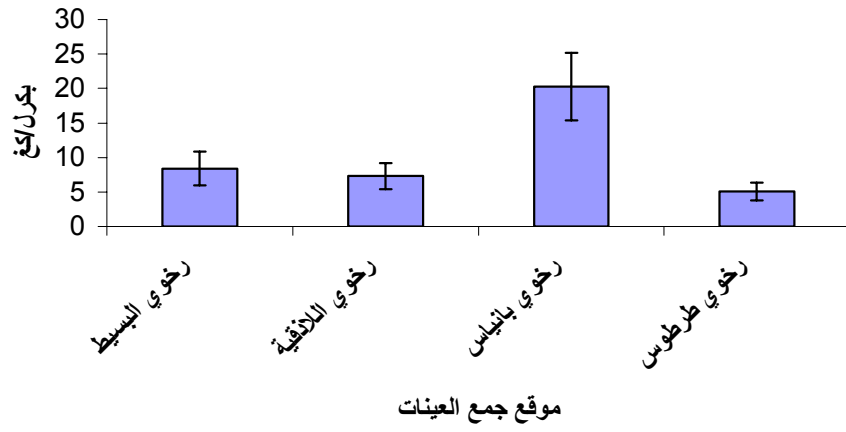
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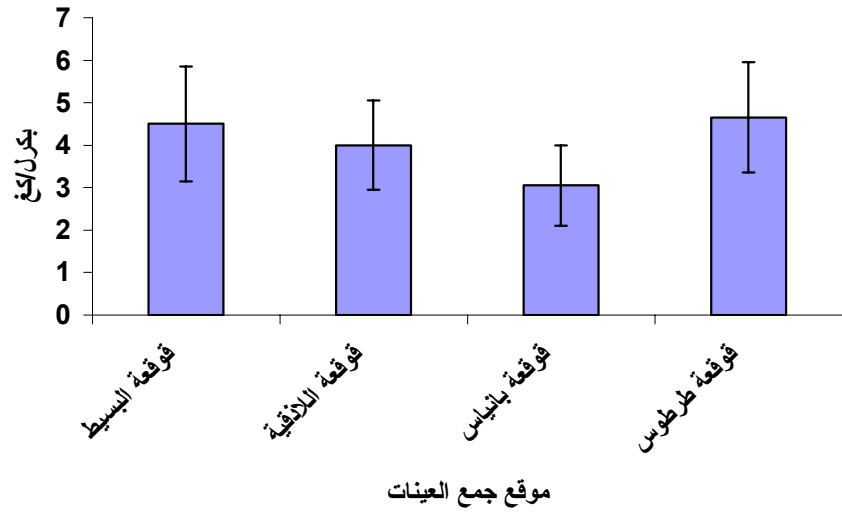
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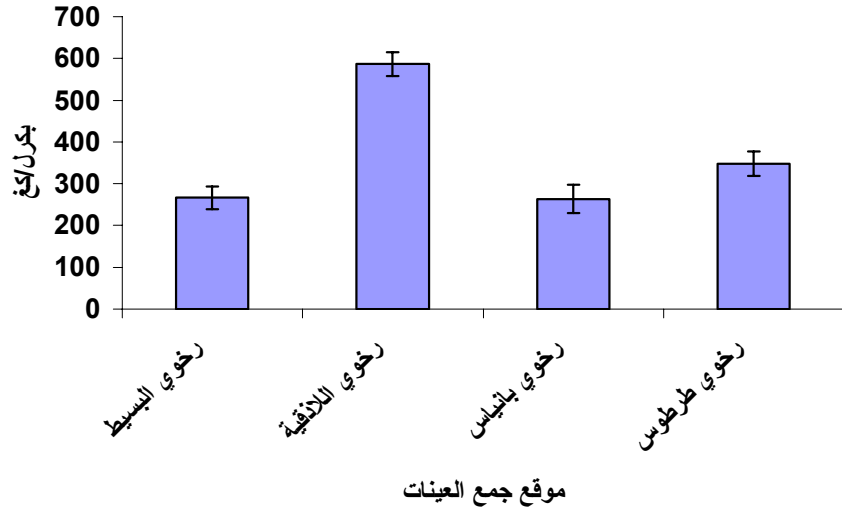
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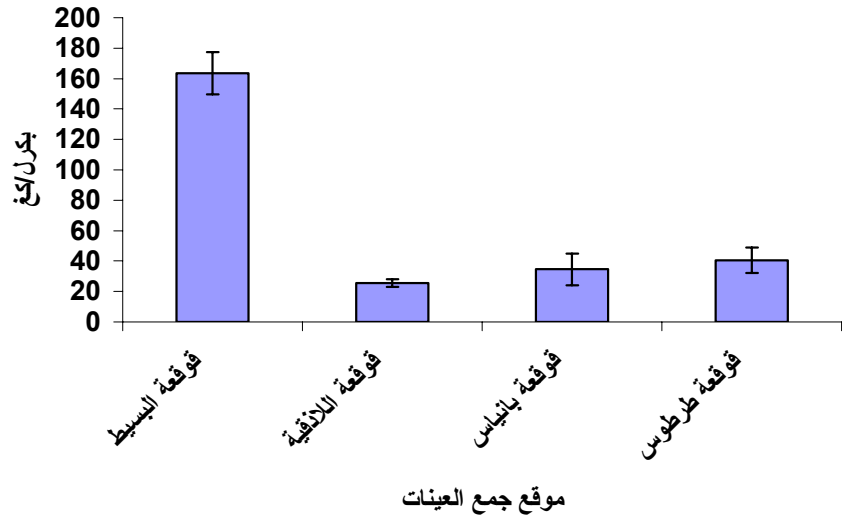
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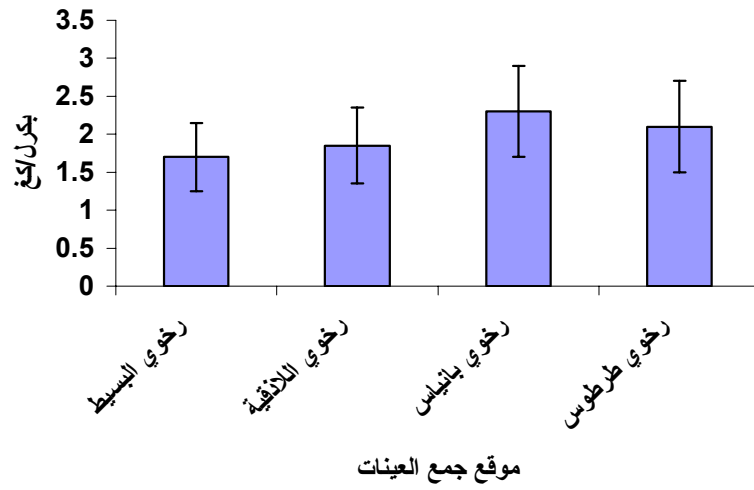
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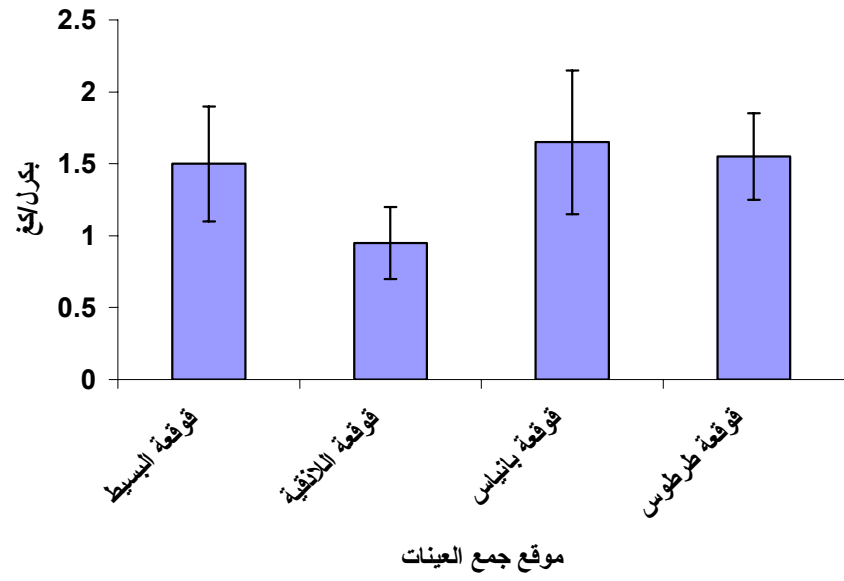
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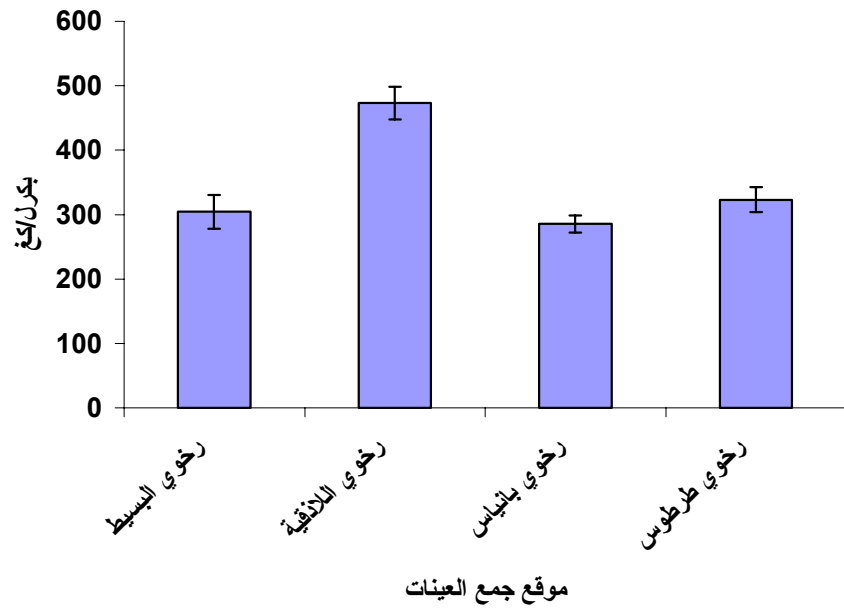
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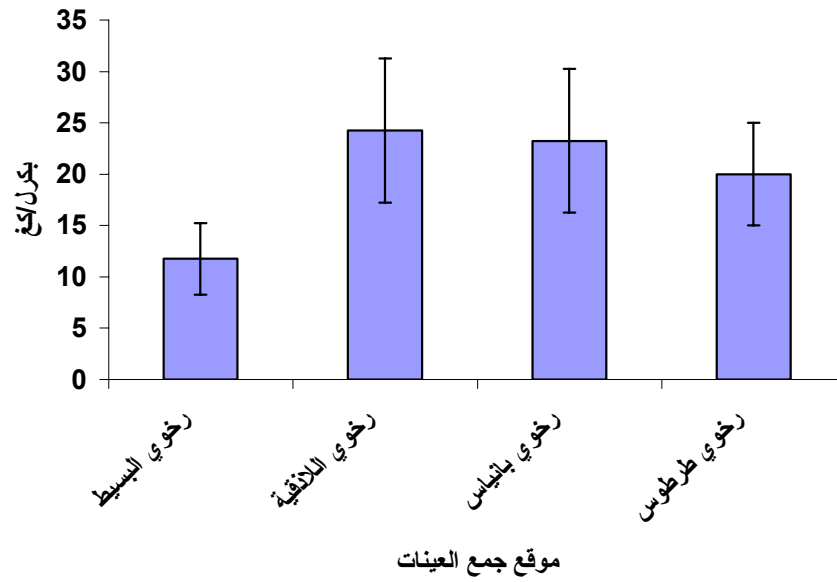
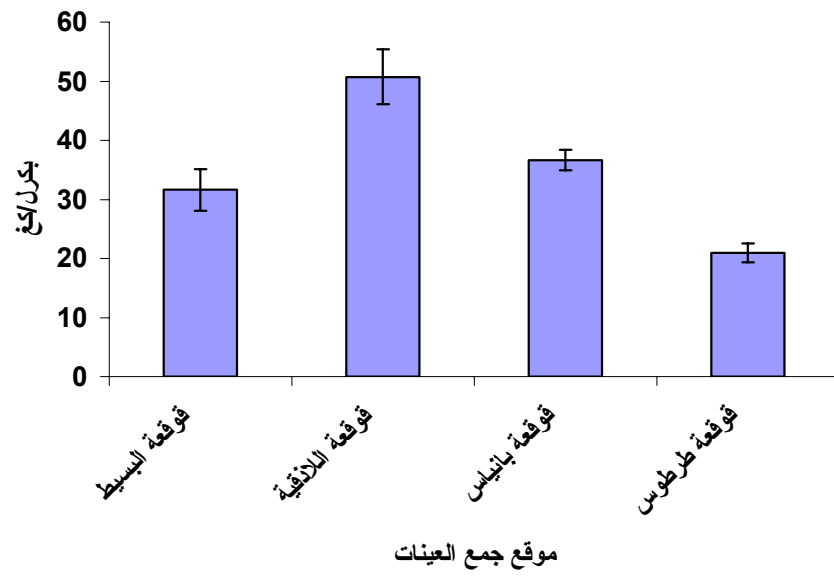


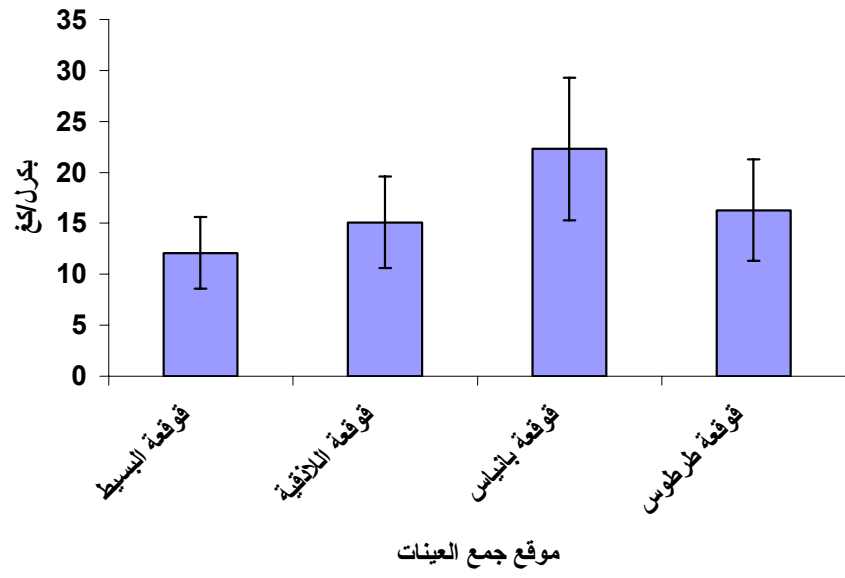
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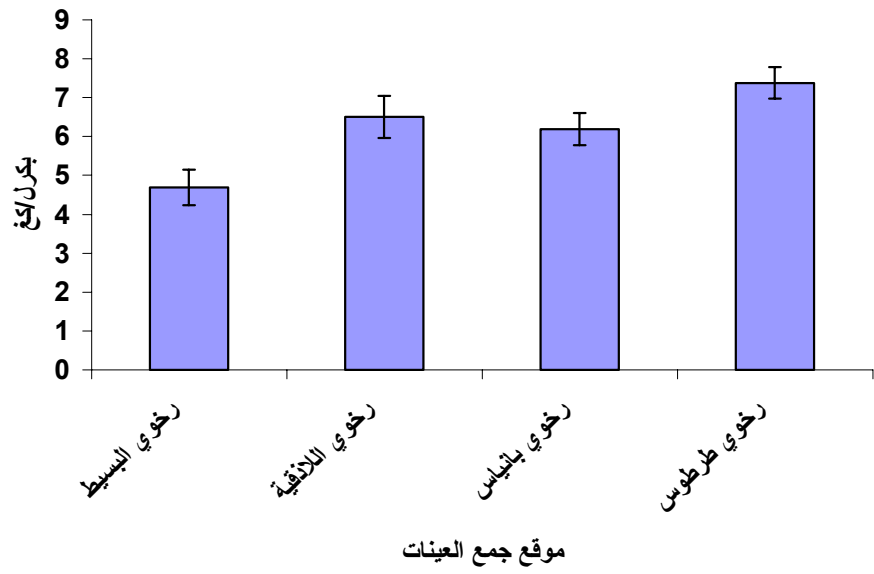
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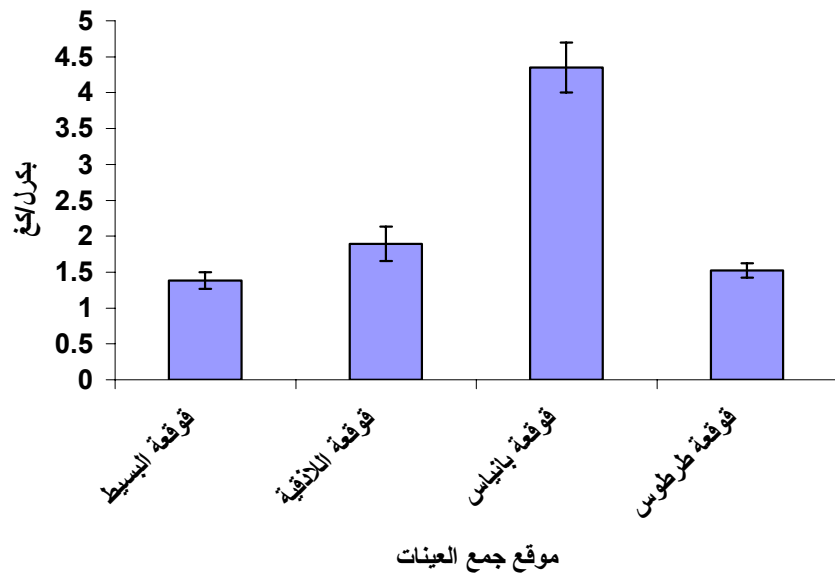
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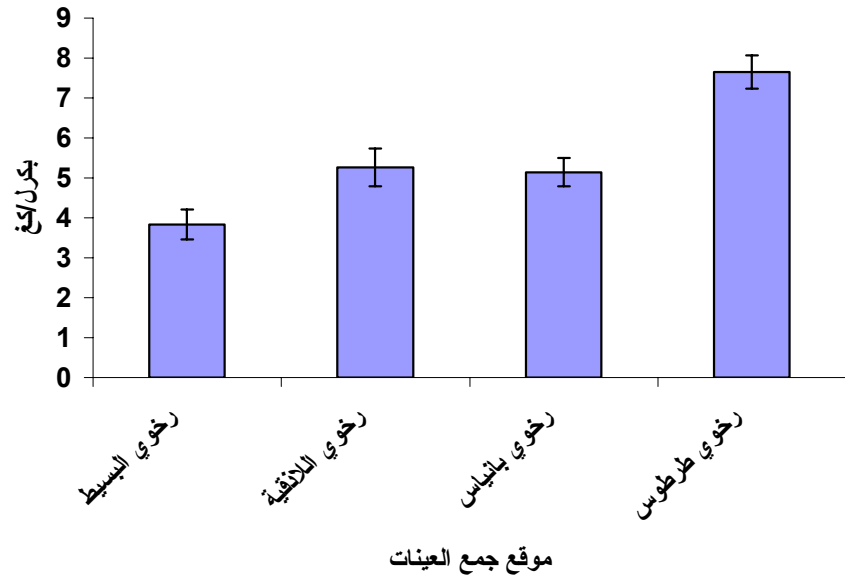
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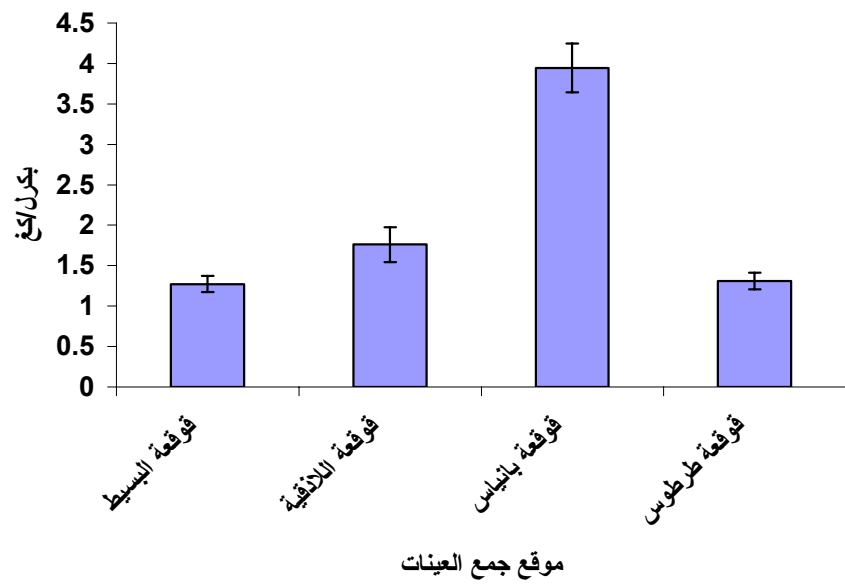
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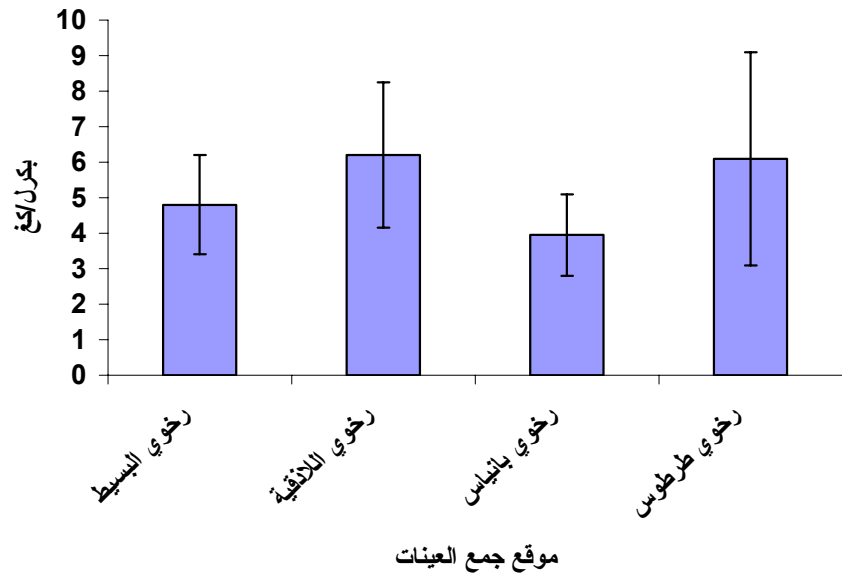
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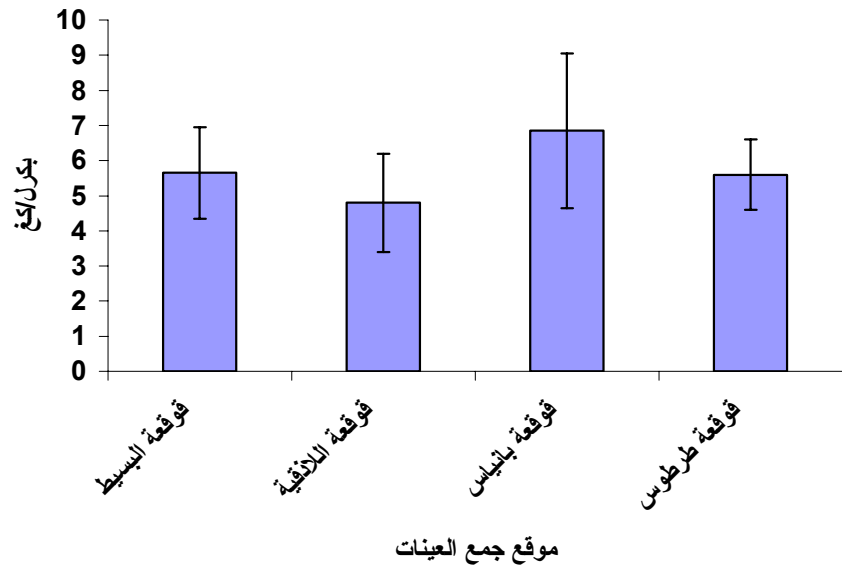
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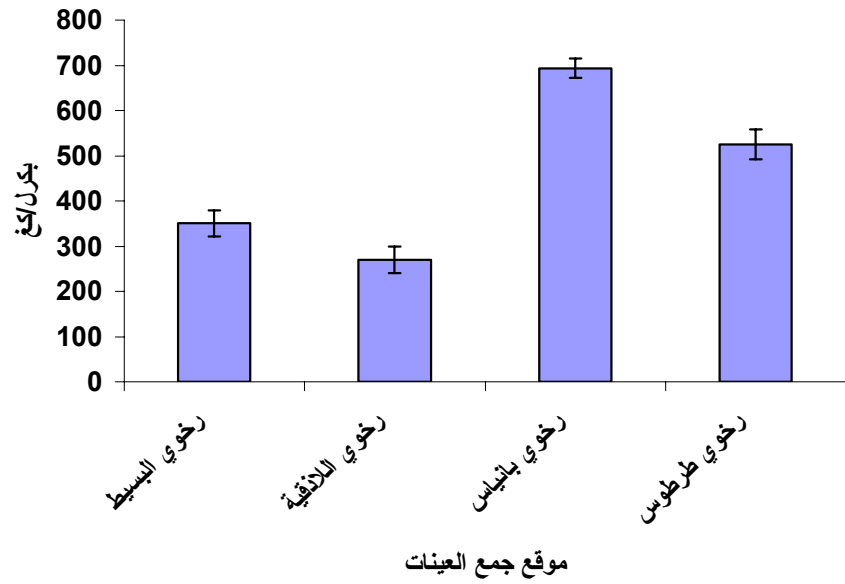
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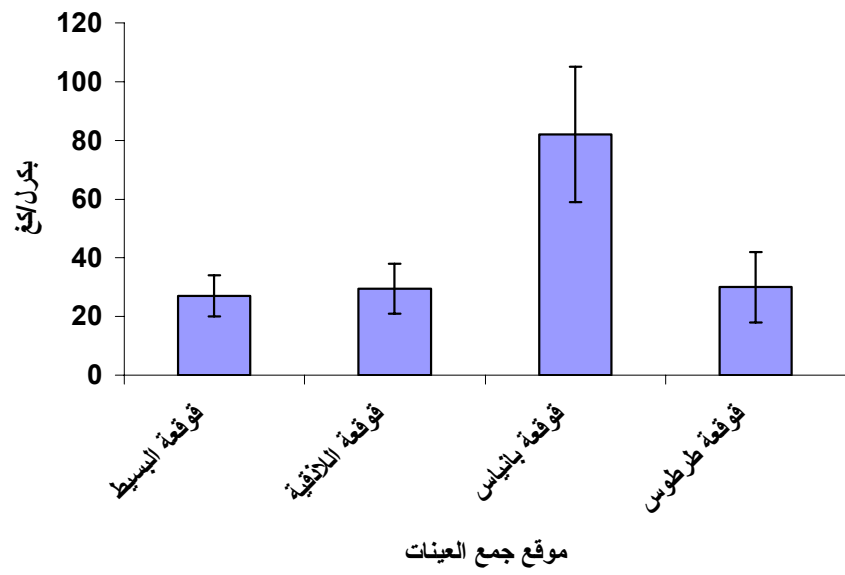
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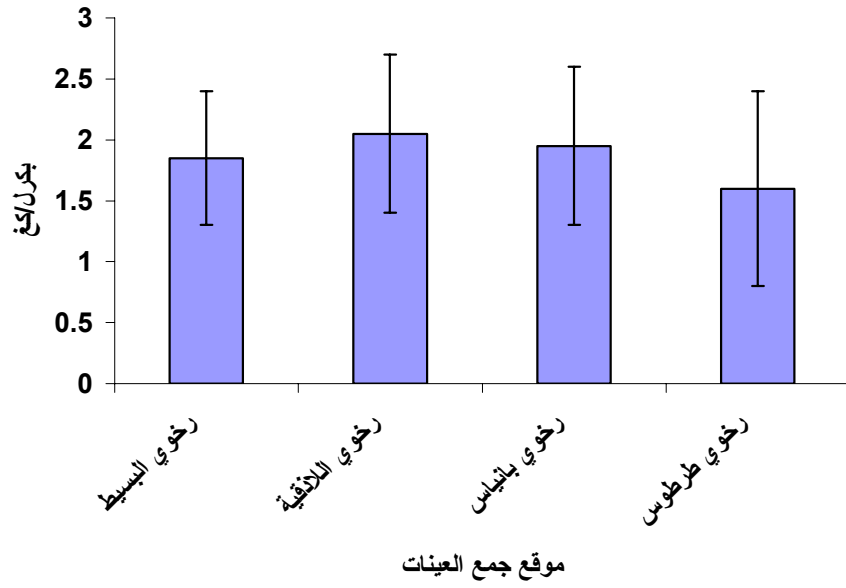
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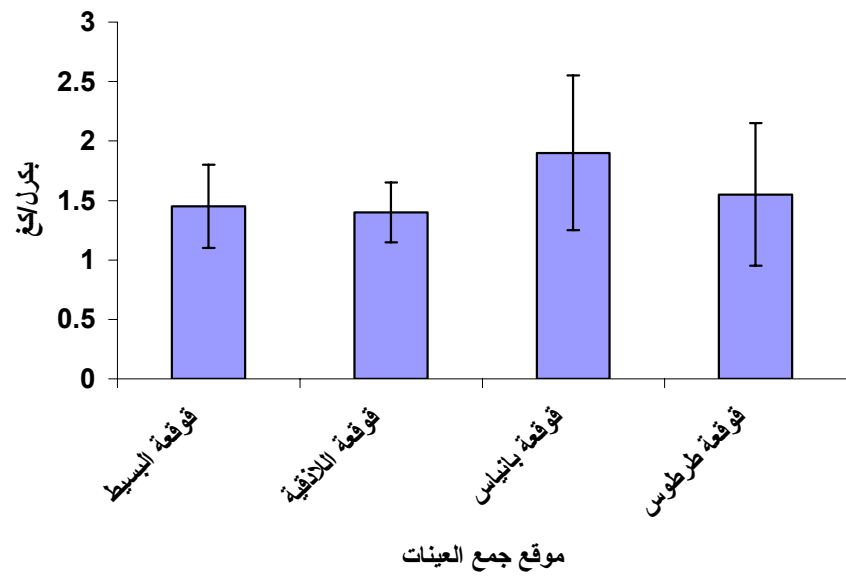
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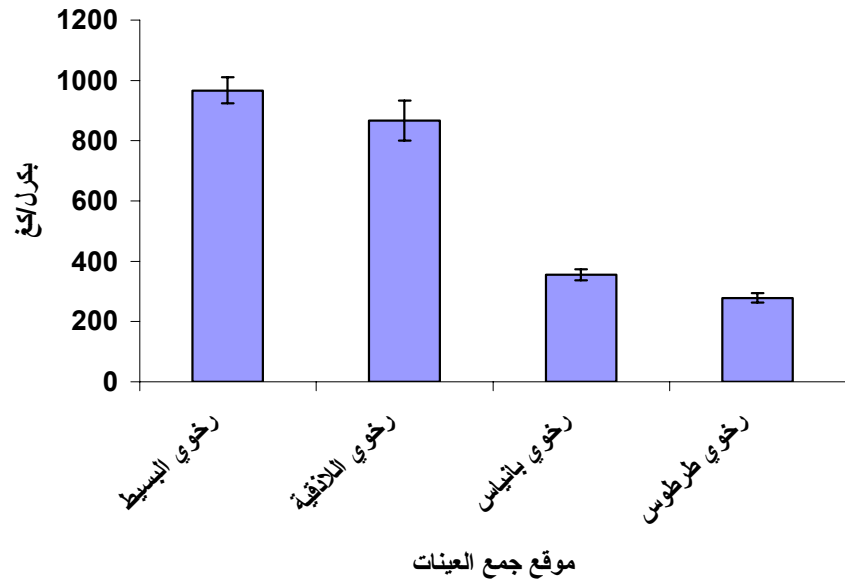
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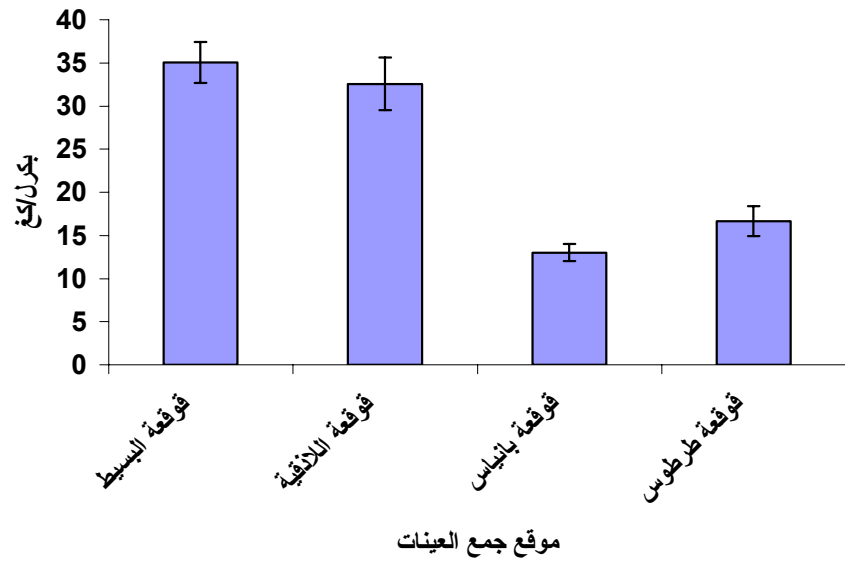
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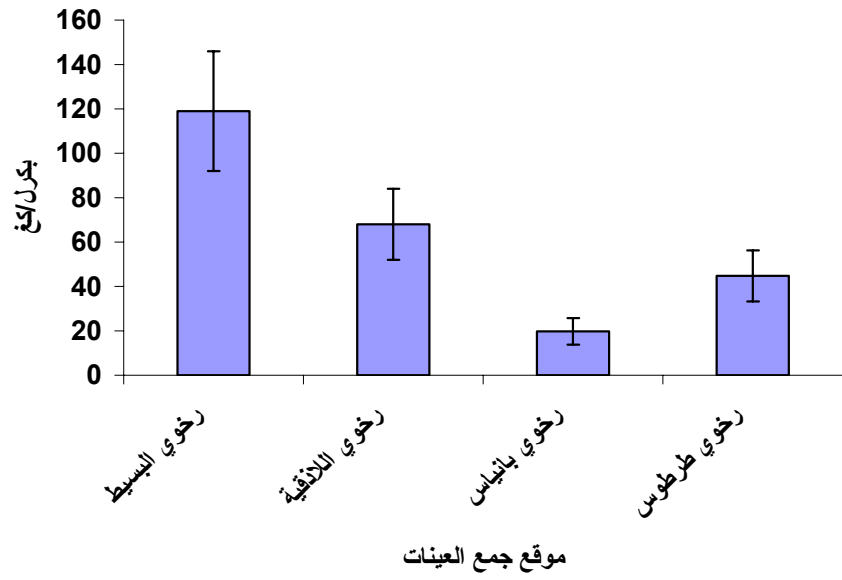
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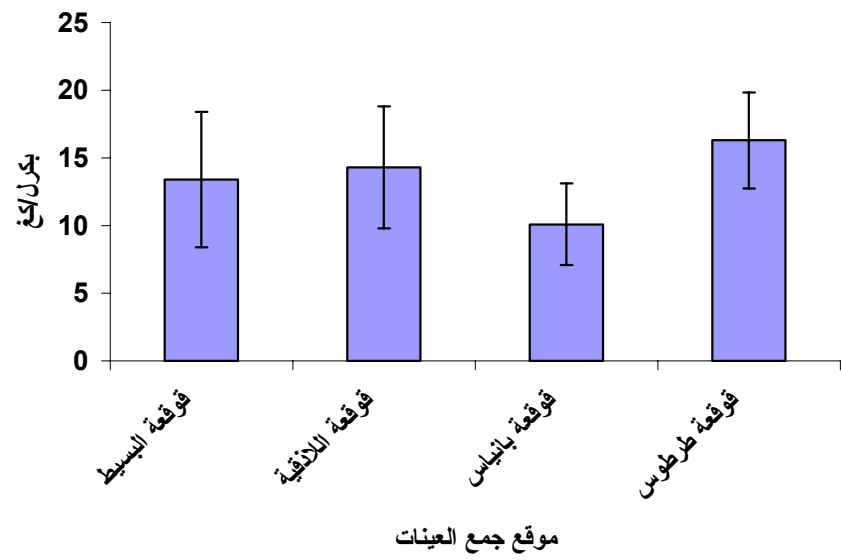
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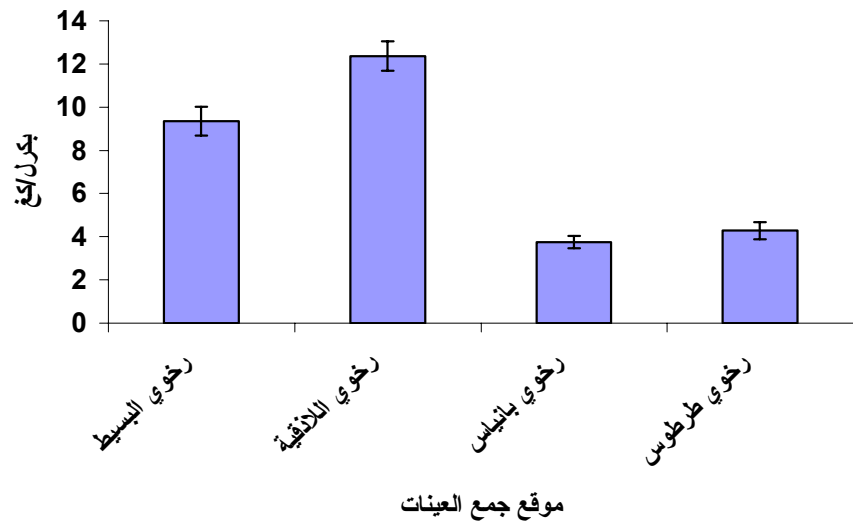
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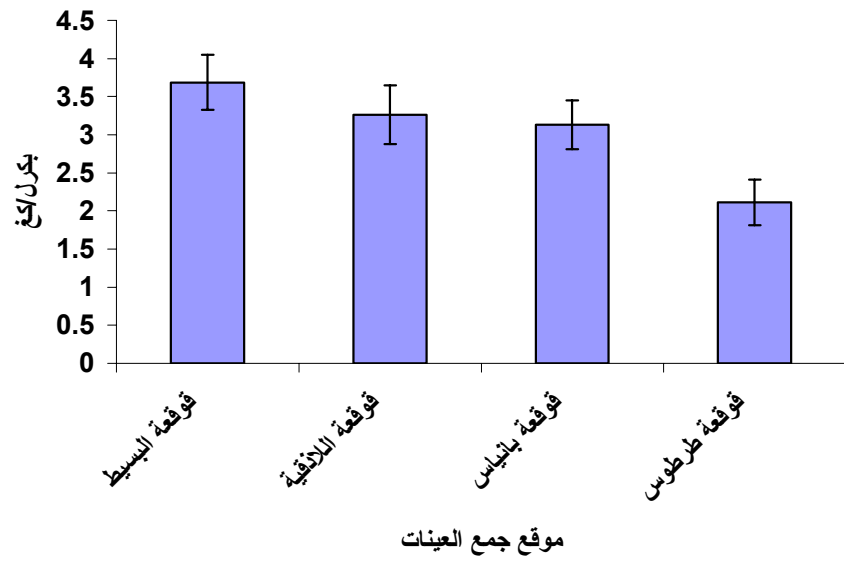
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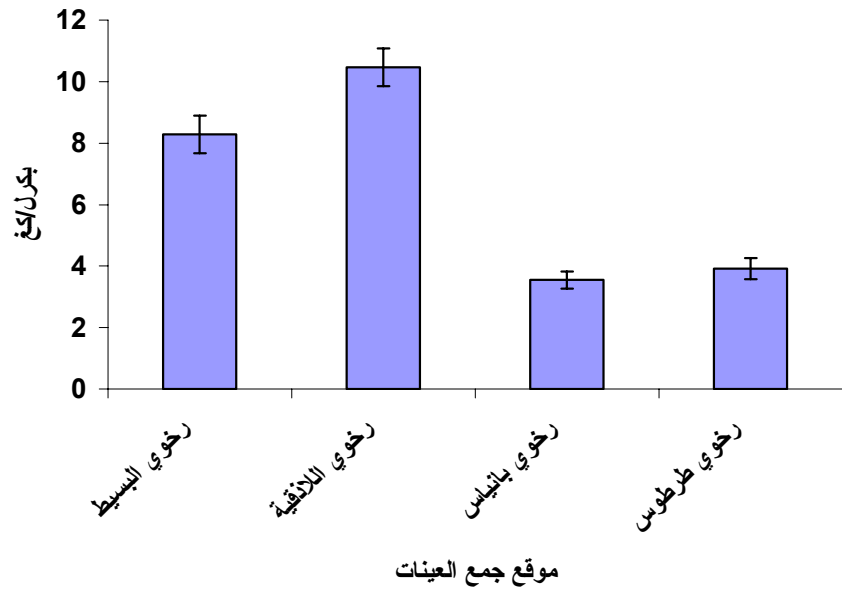
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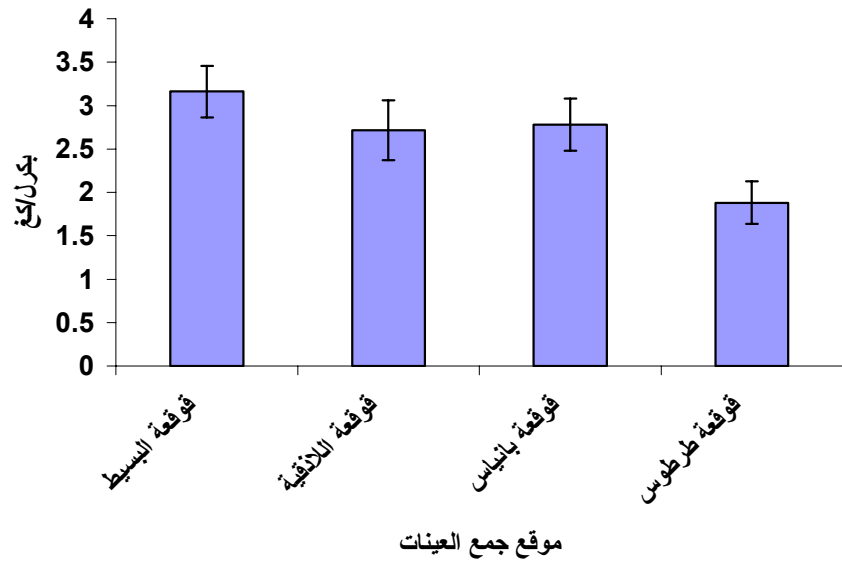
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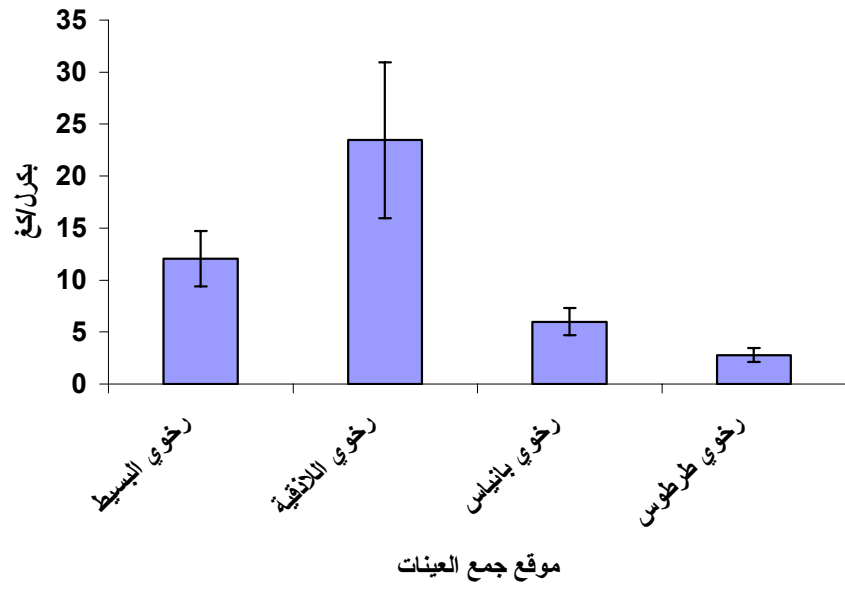
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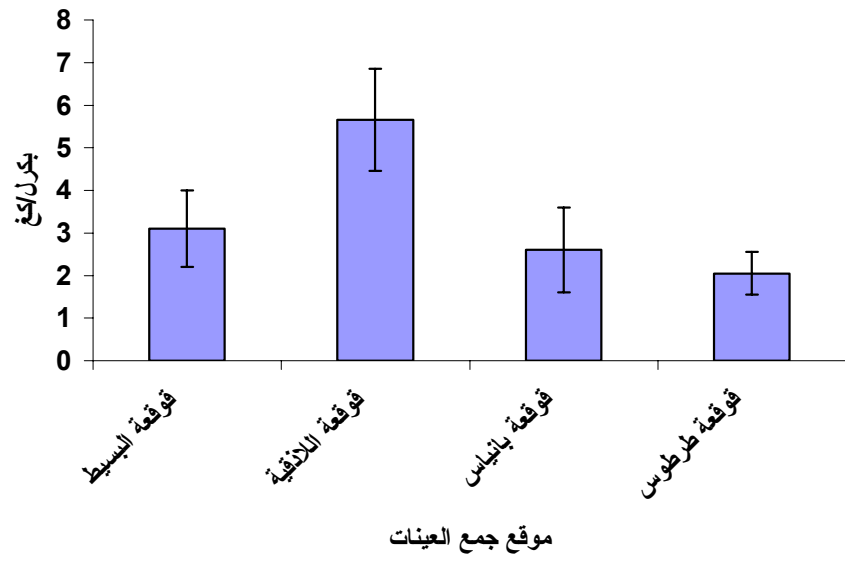
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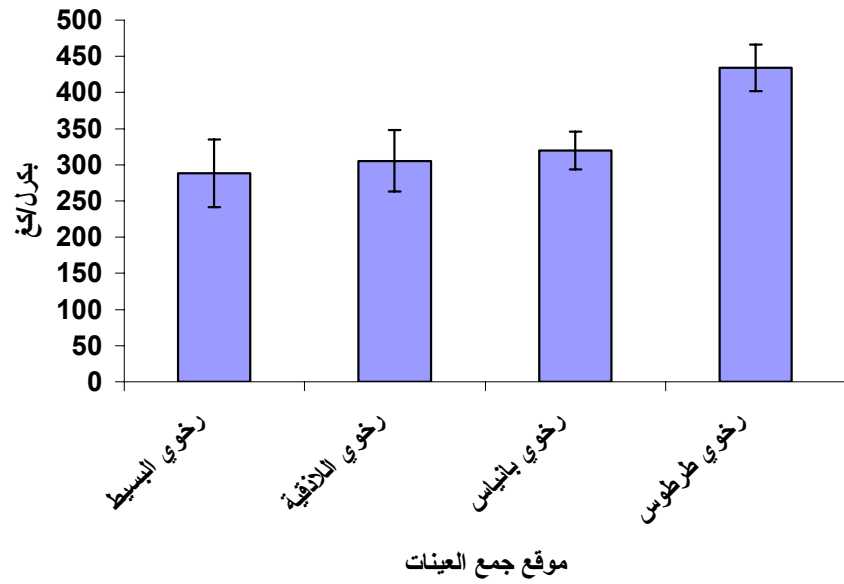
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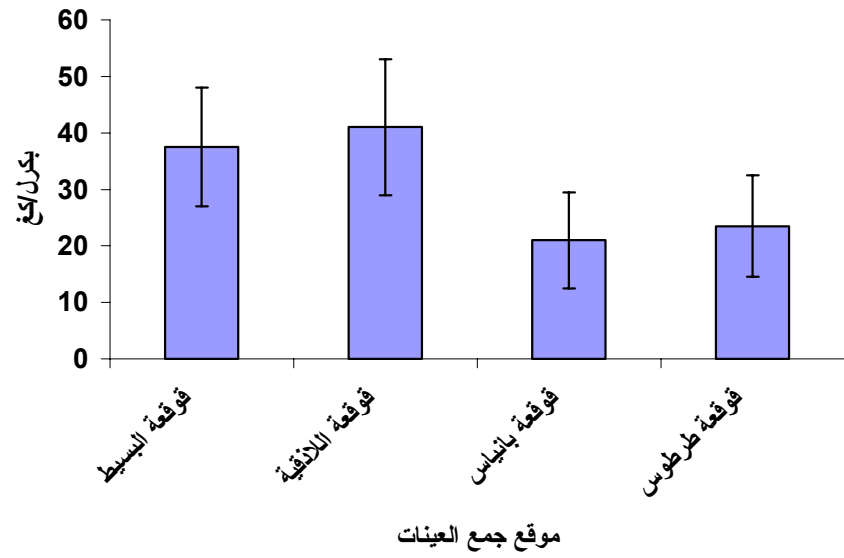
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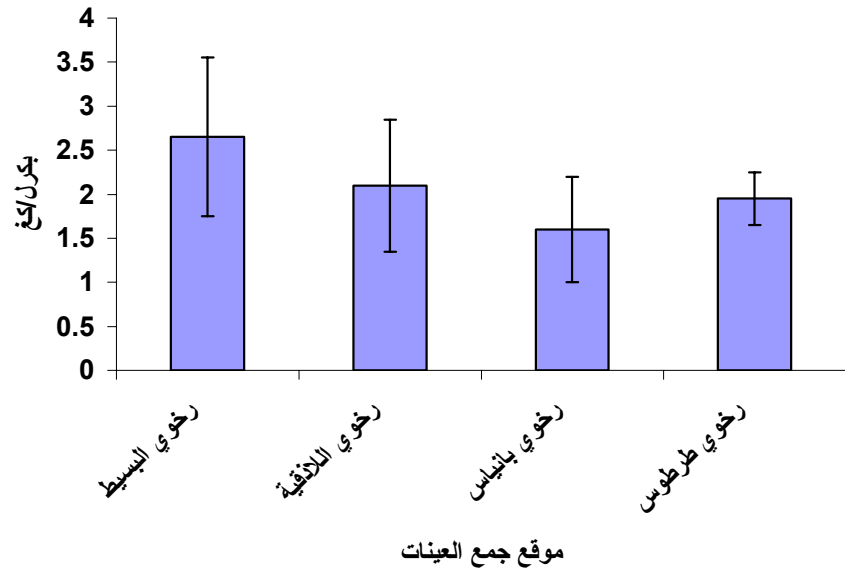
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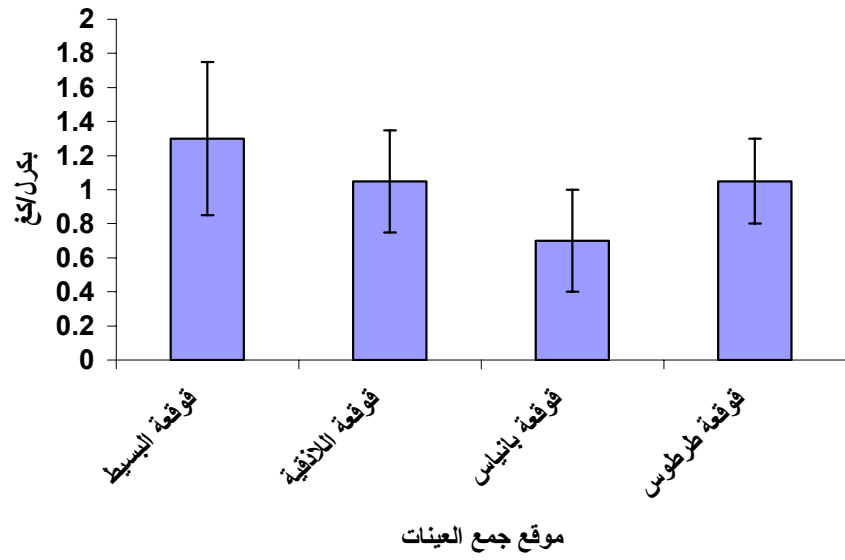
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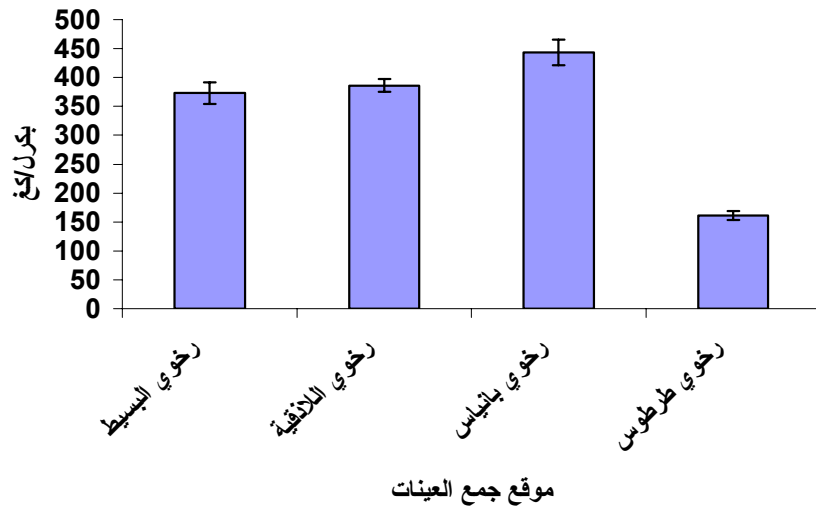
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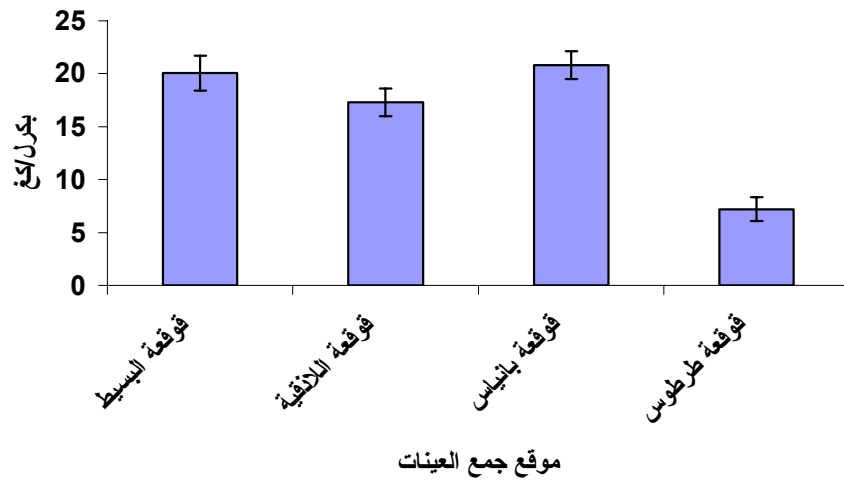
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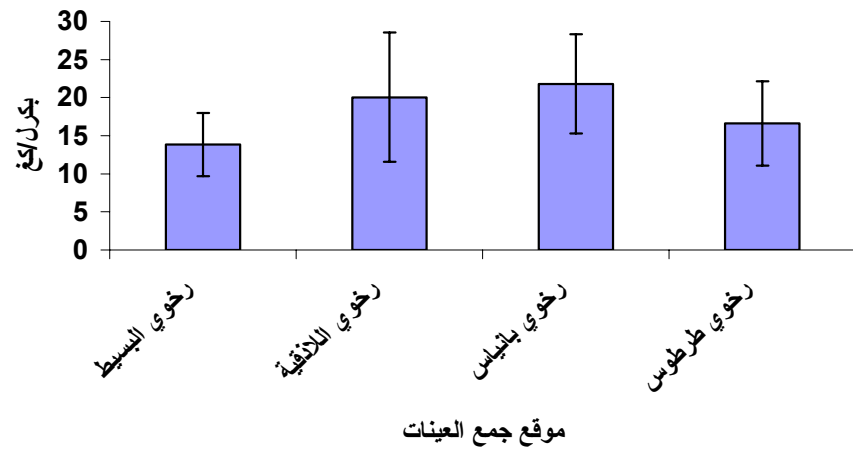
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(71)



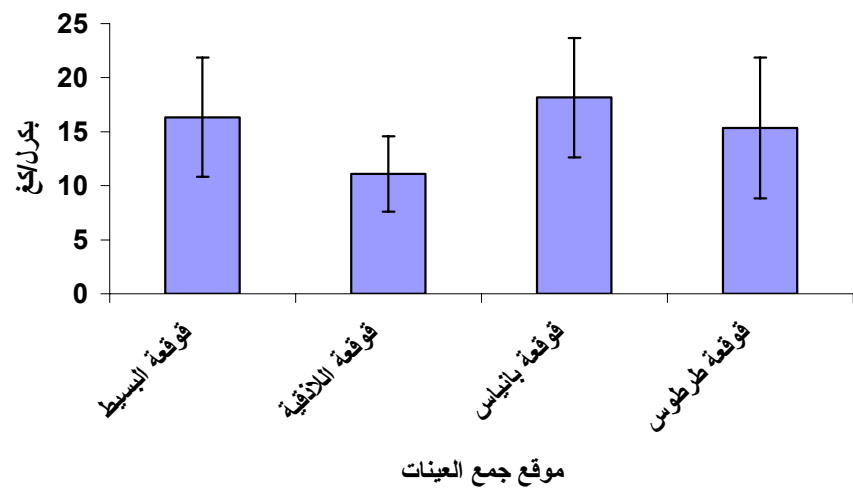
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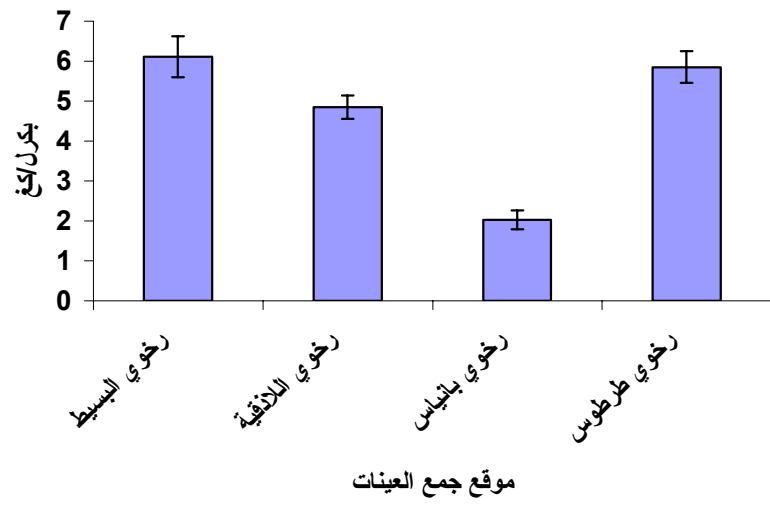
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(73)



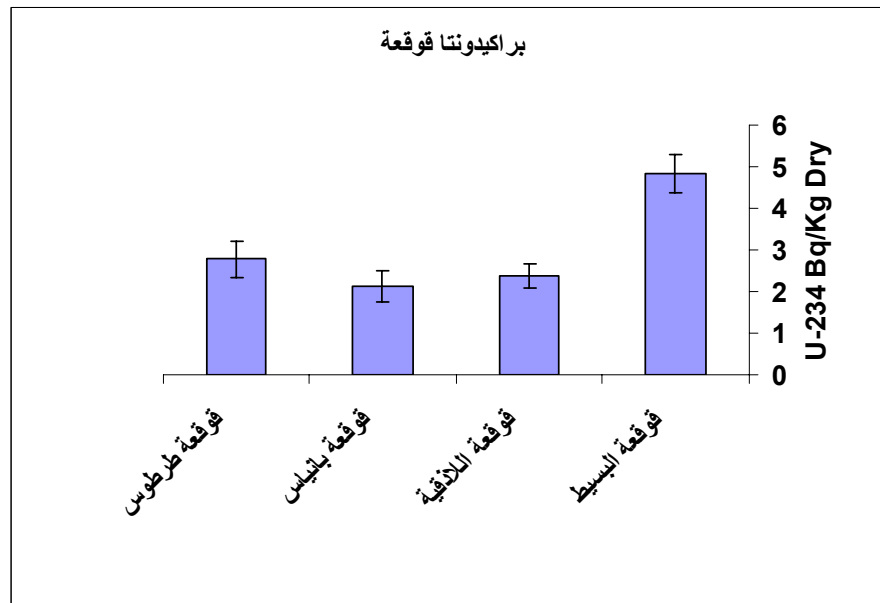
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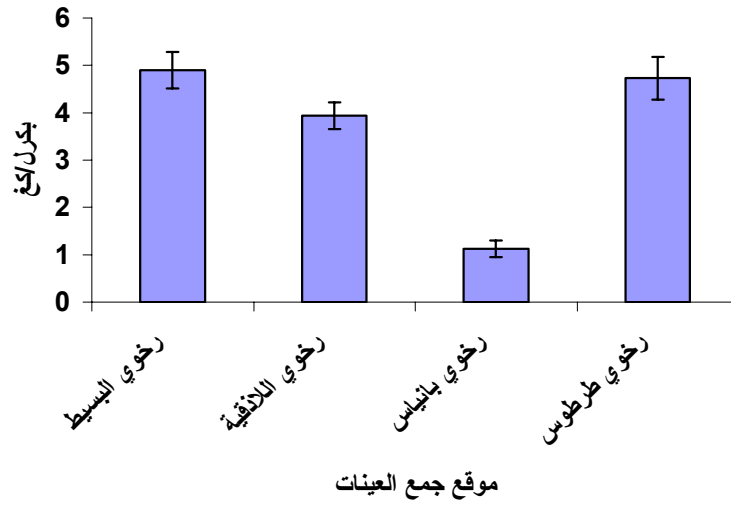
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(75)



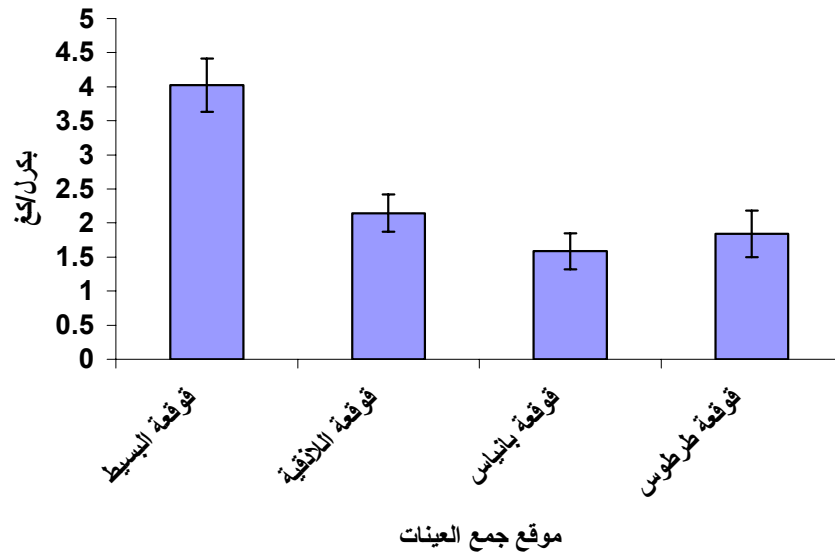
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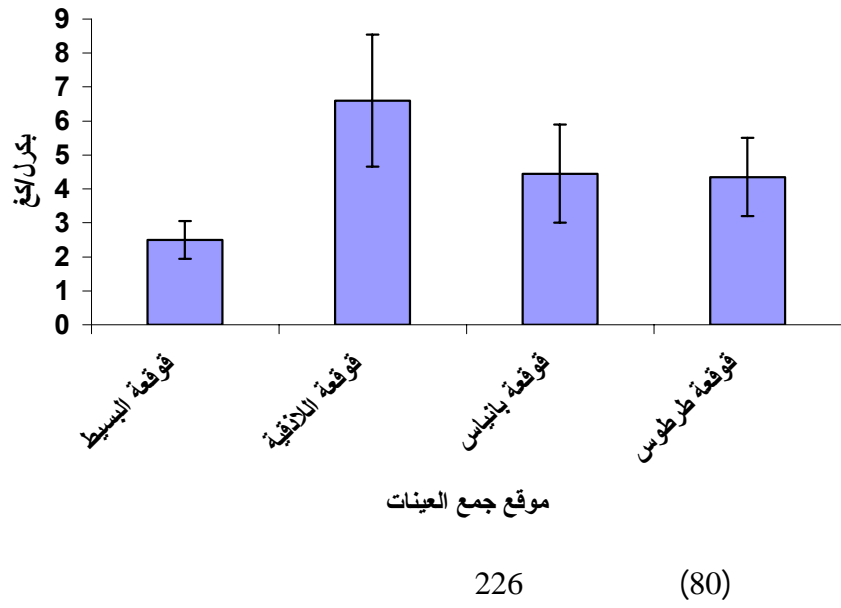
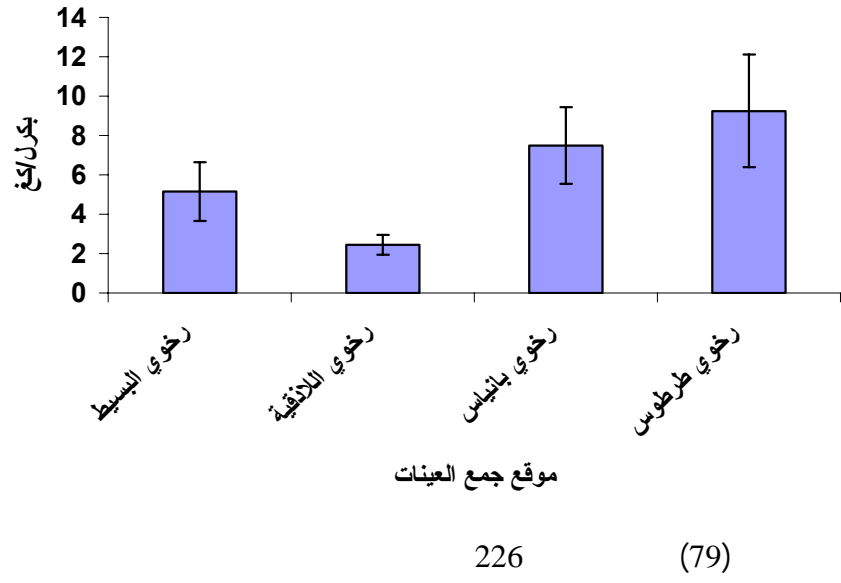
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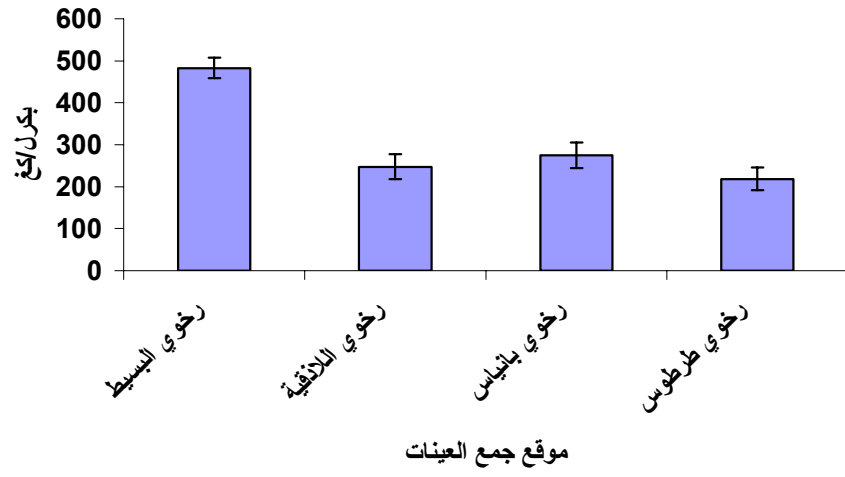
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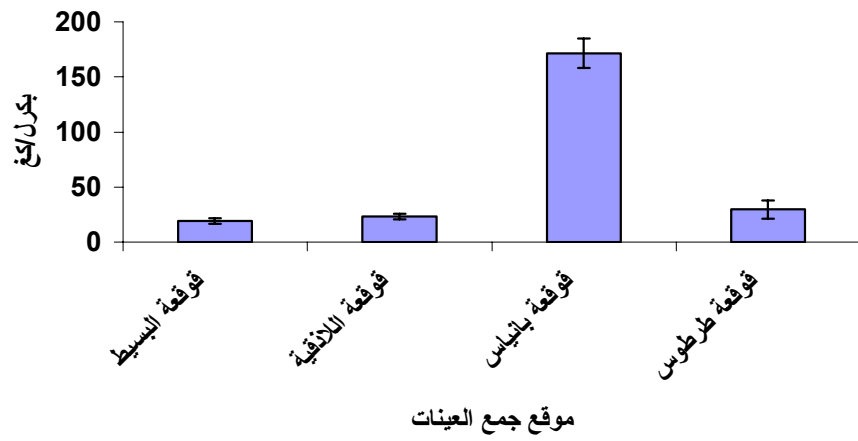
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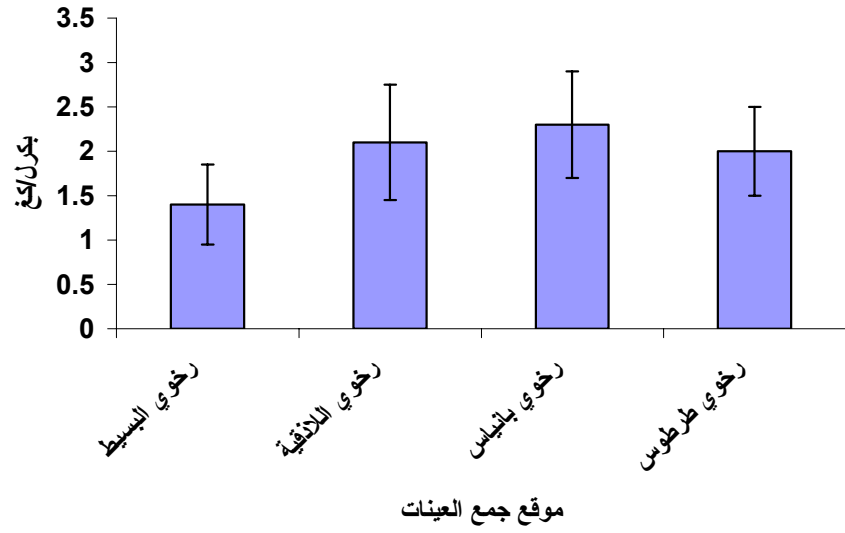
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(81)



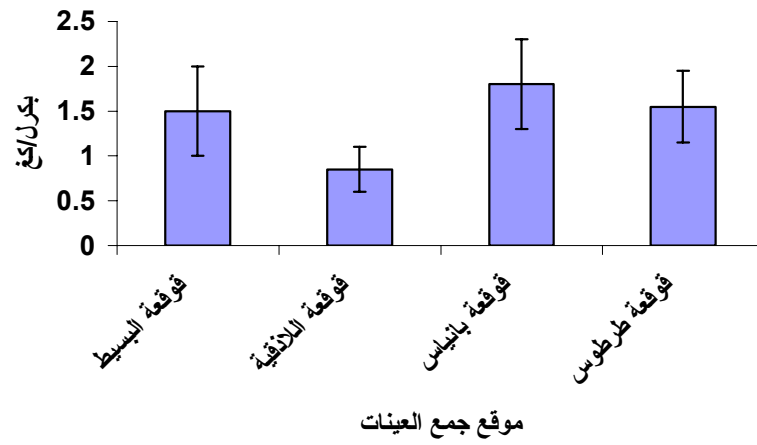
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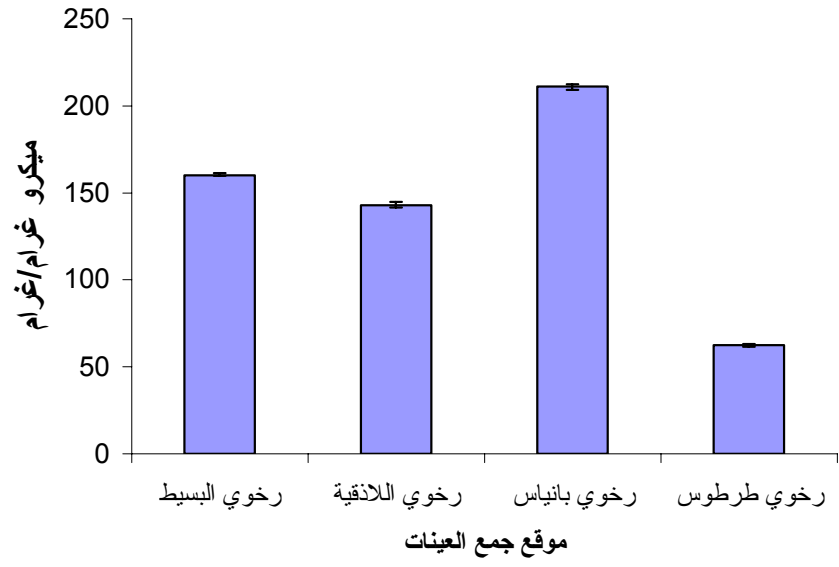
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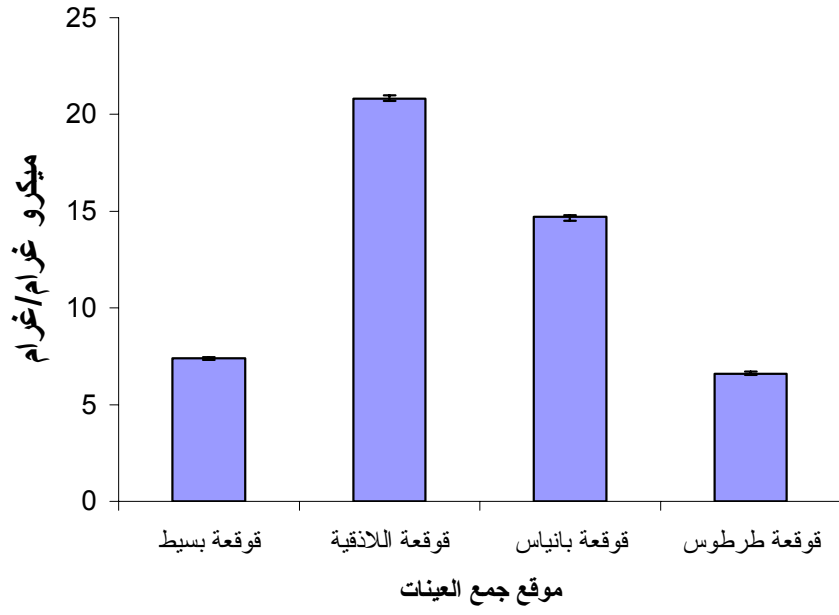


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(84)

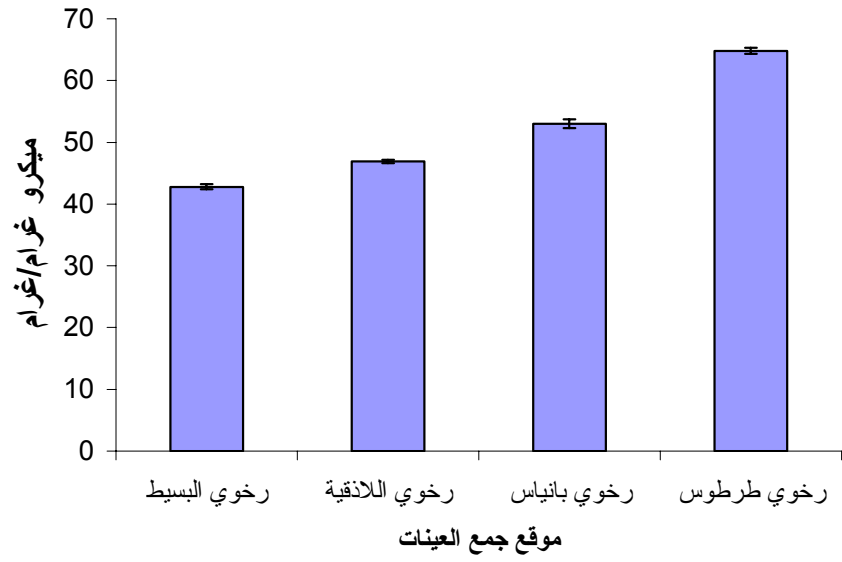


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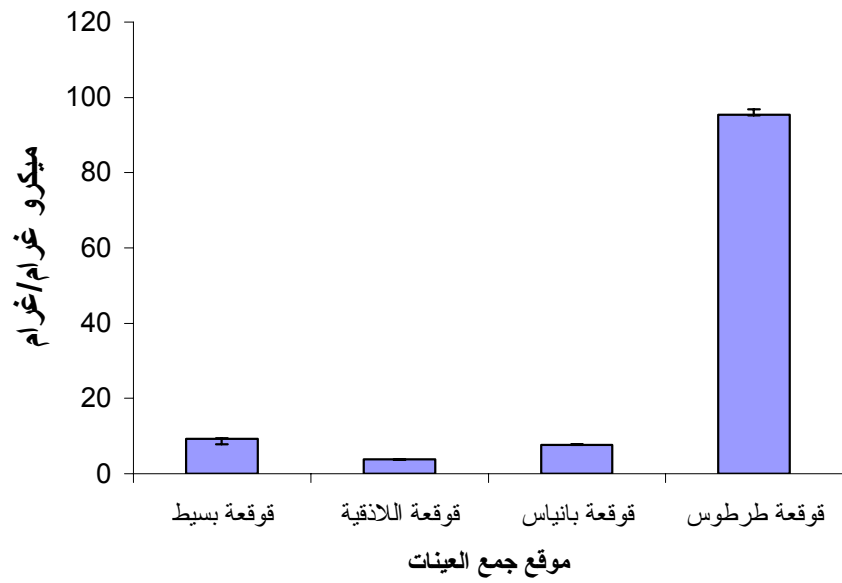


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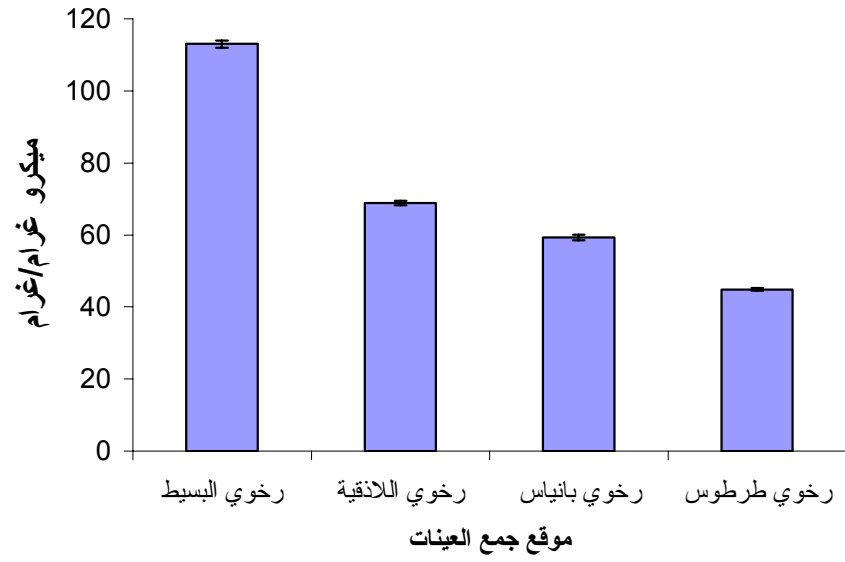




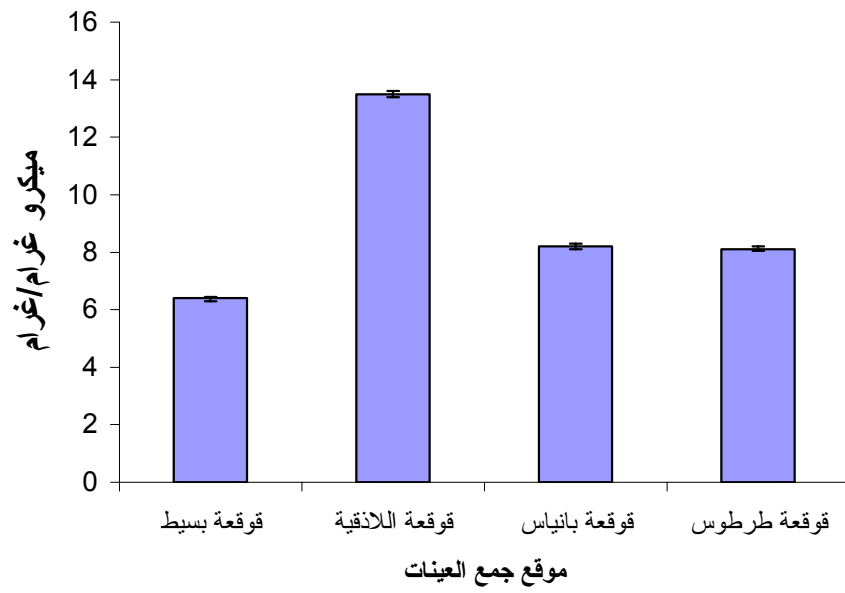
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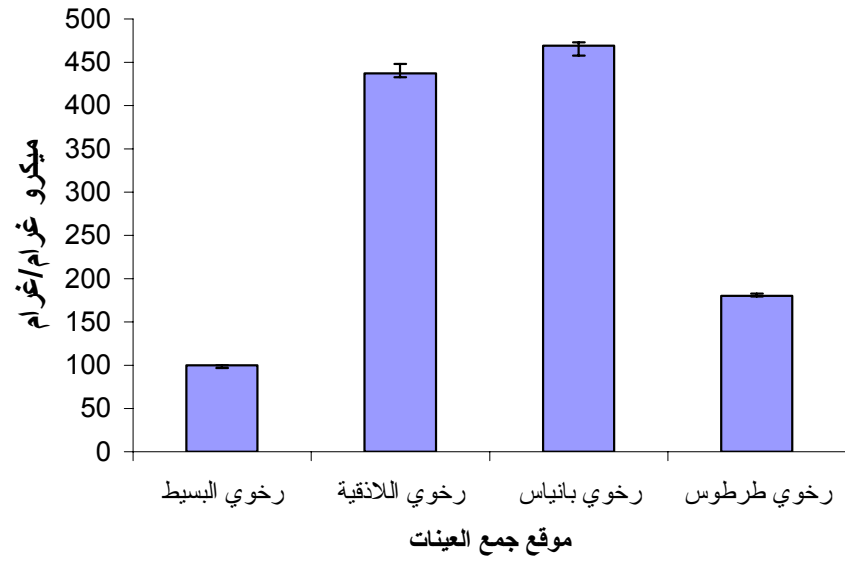
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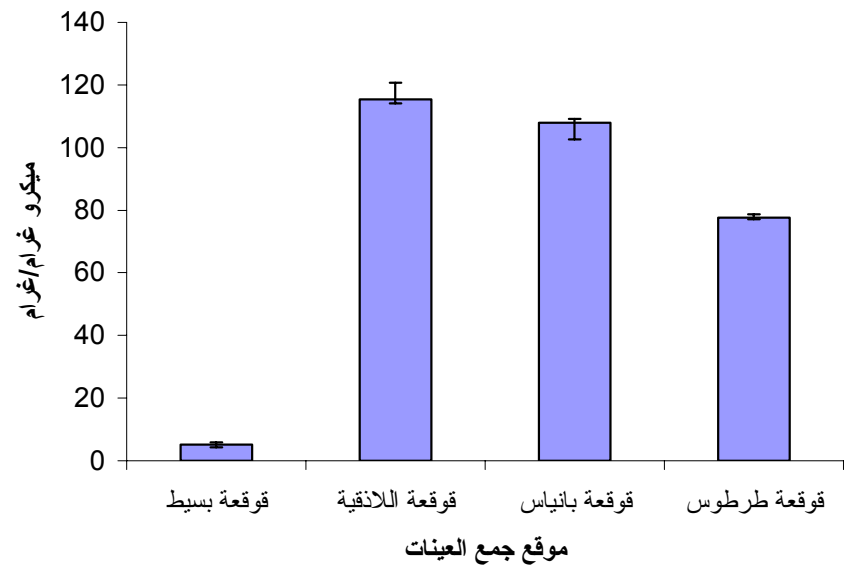
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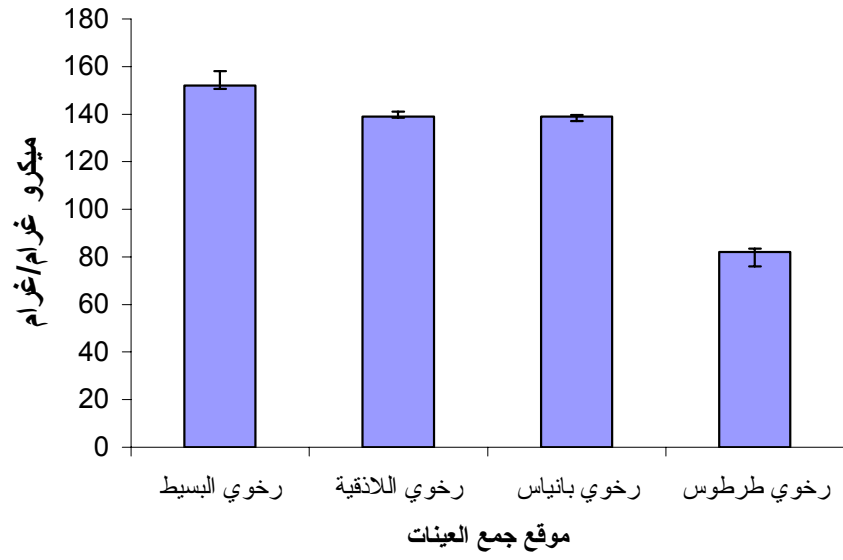
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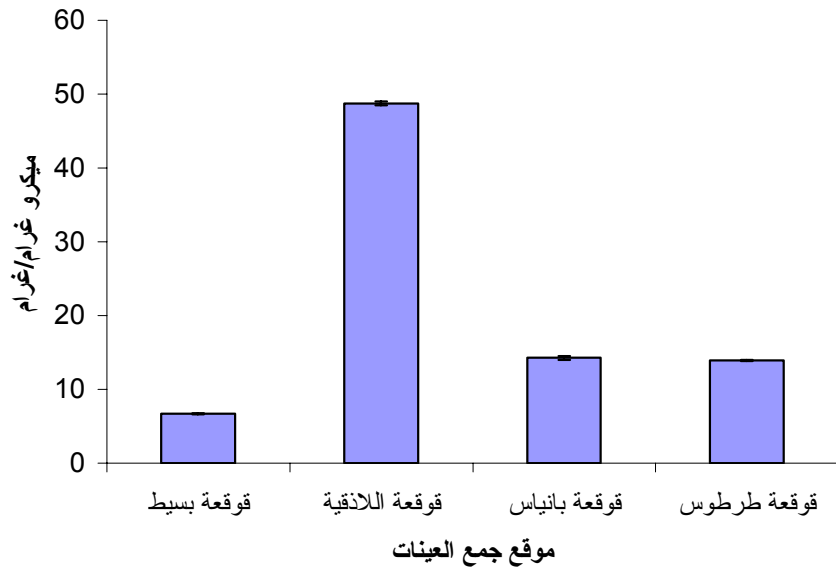
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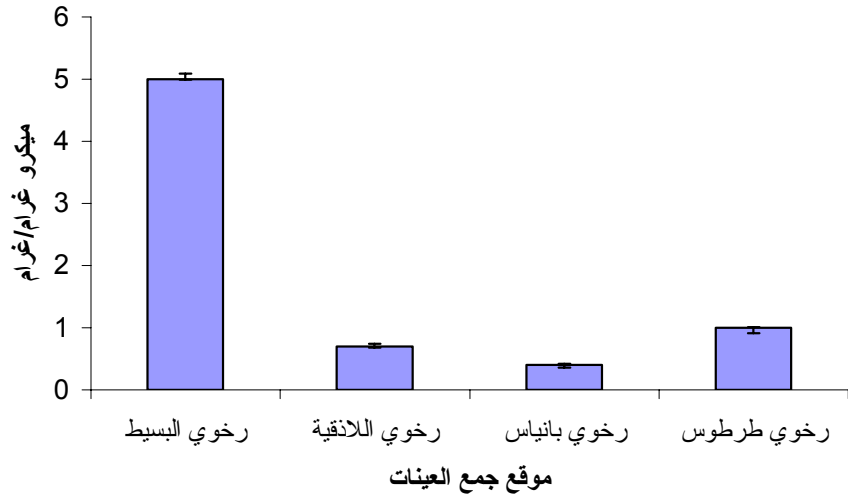
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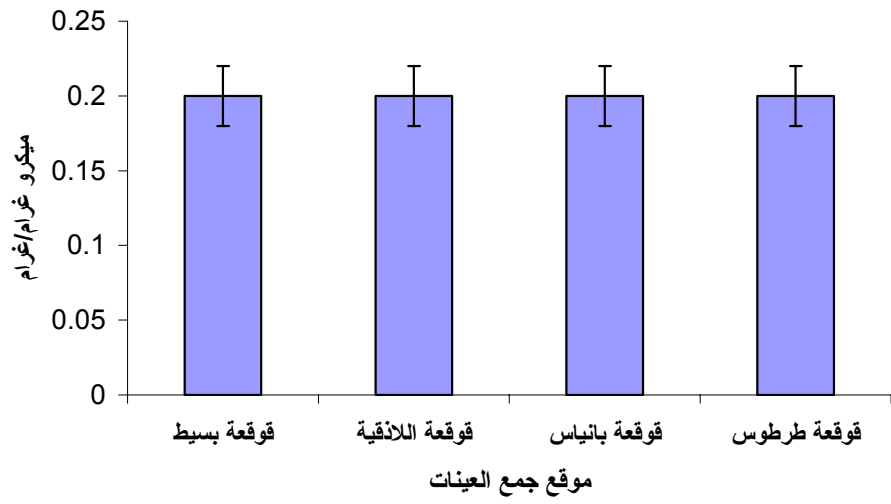
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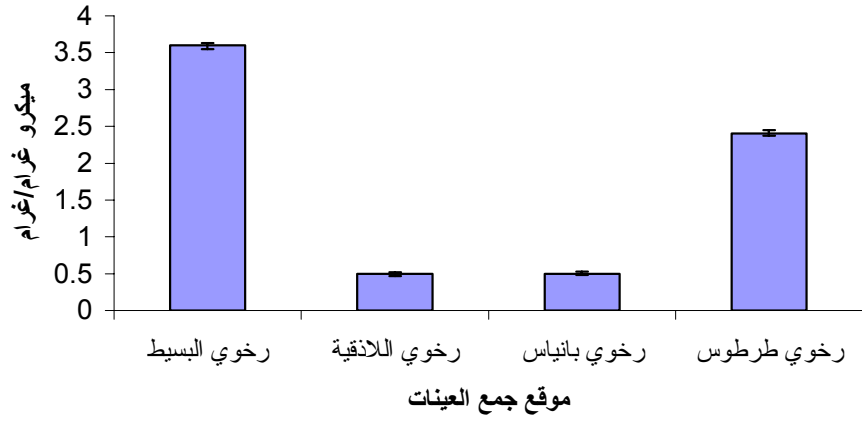
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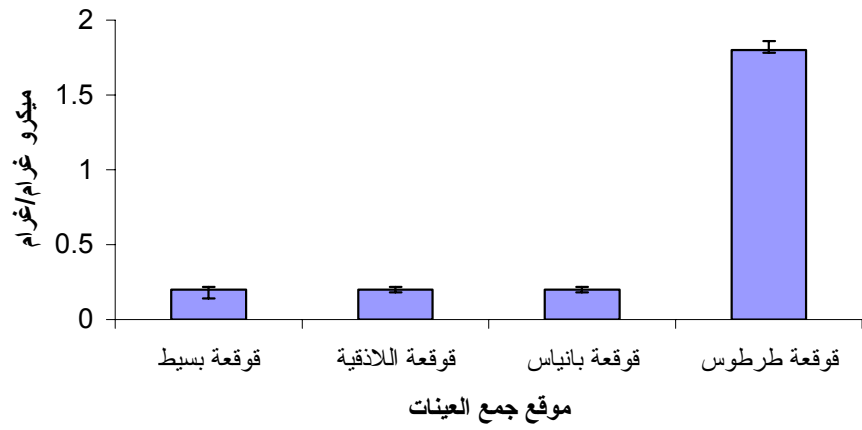
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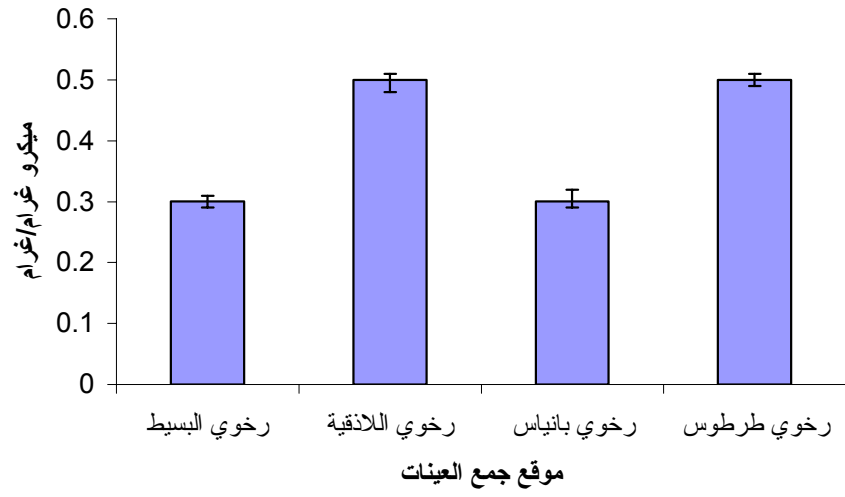
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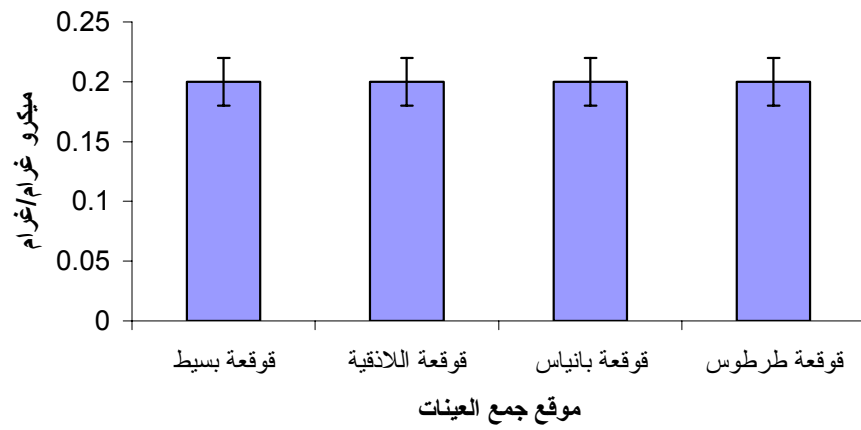
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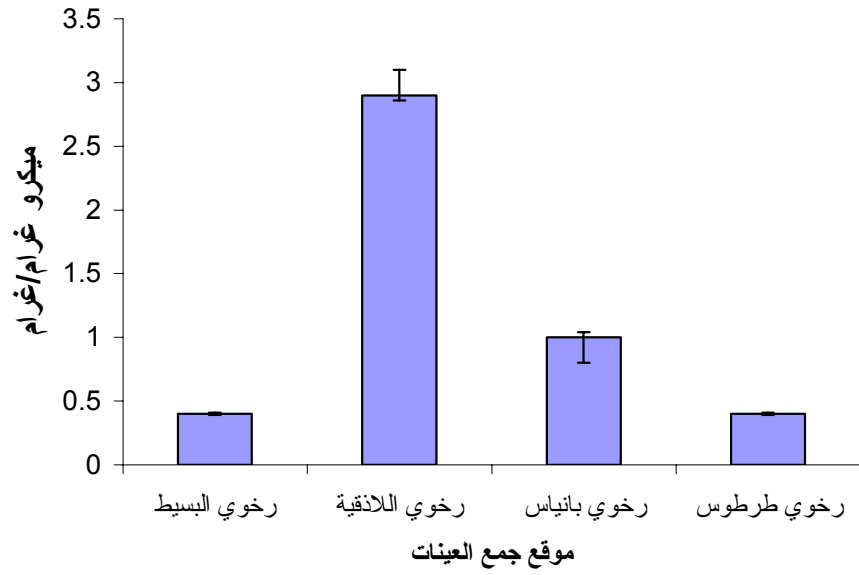
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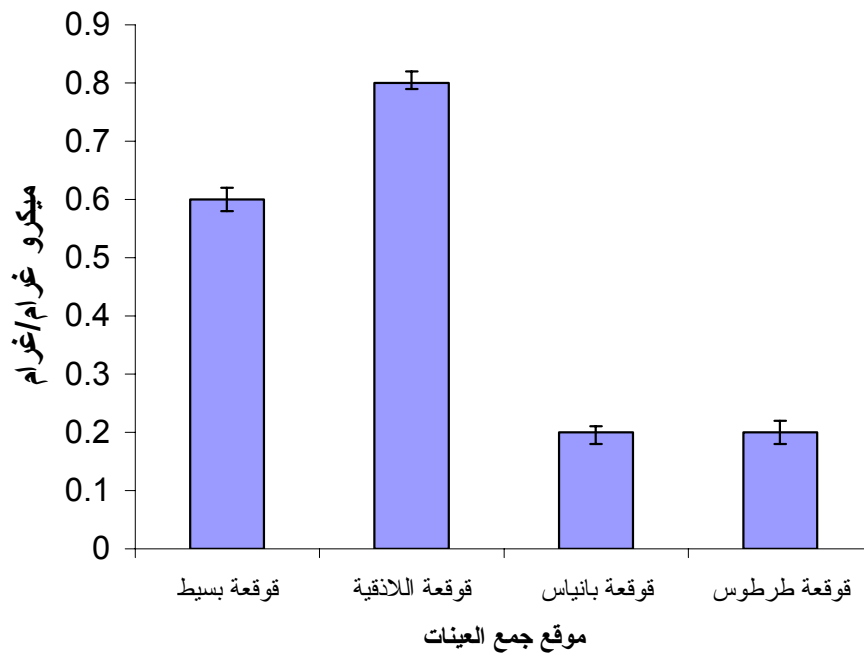
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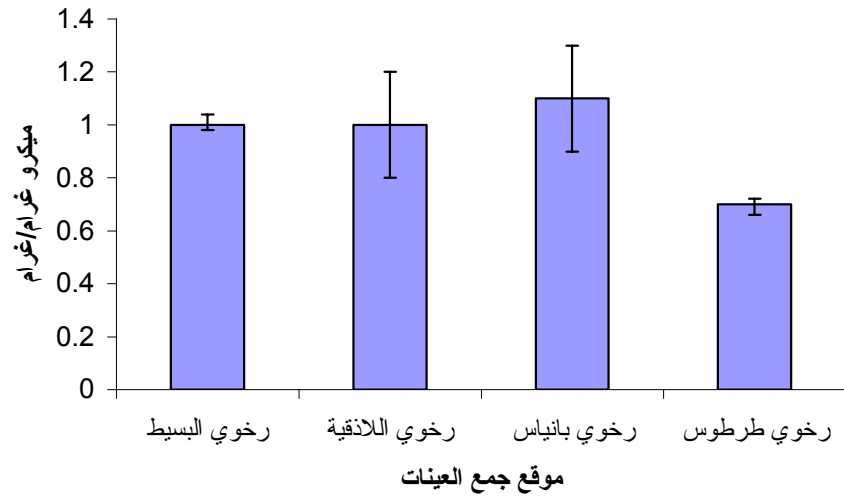


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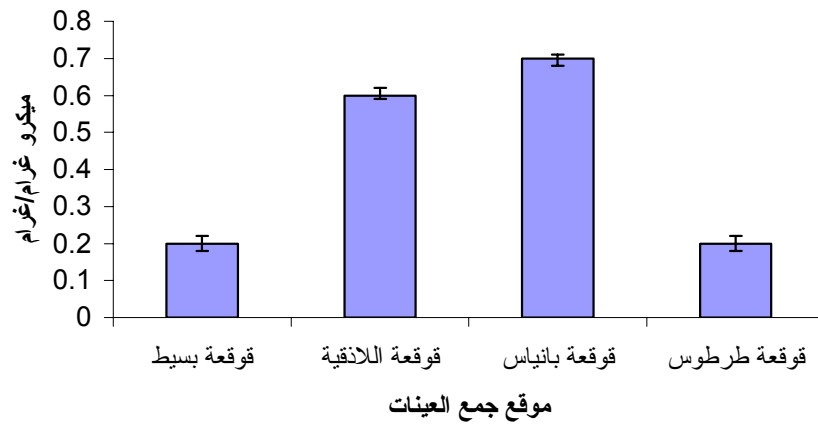


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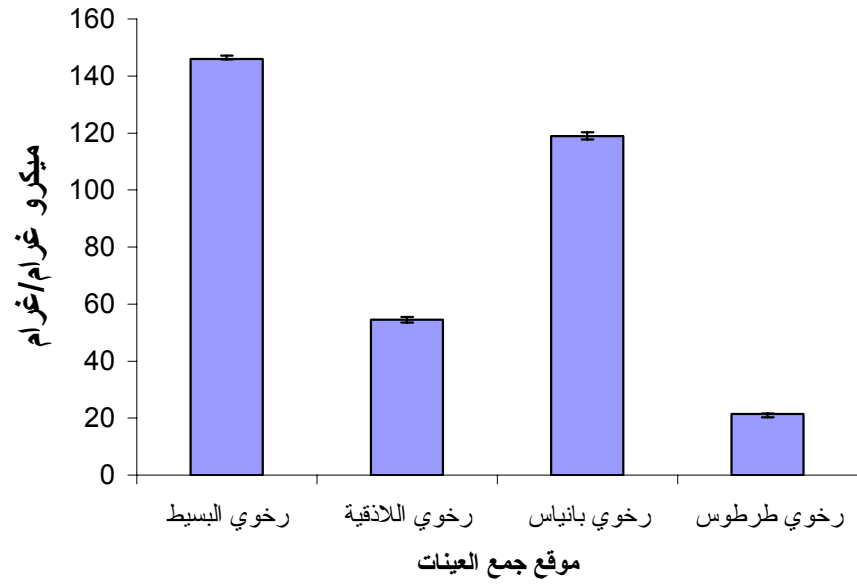




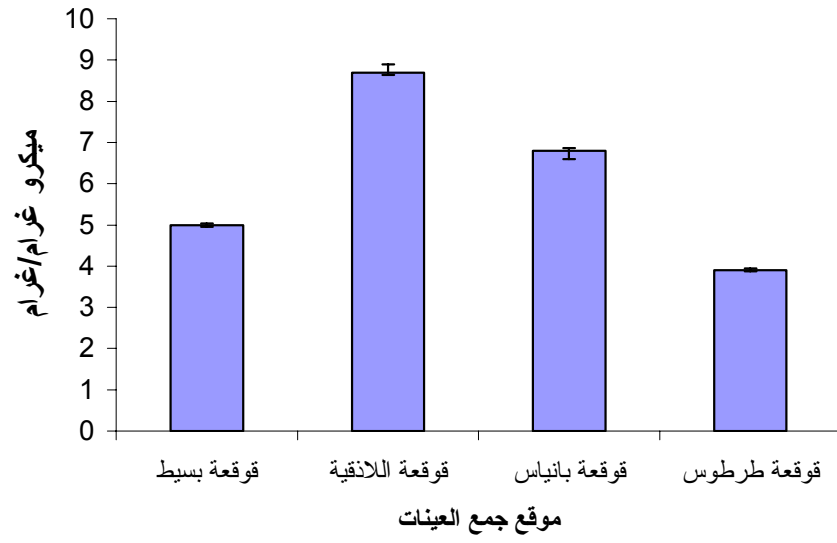
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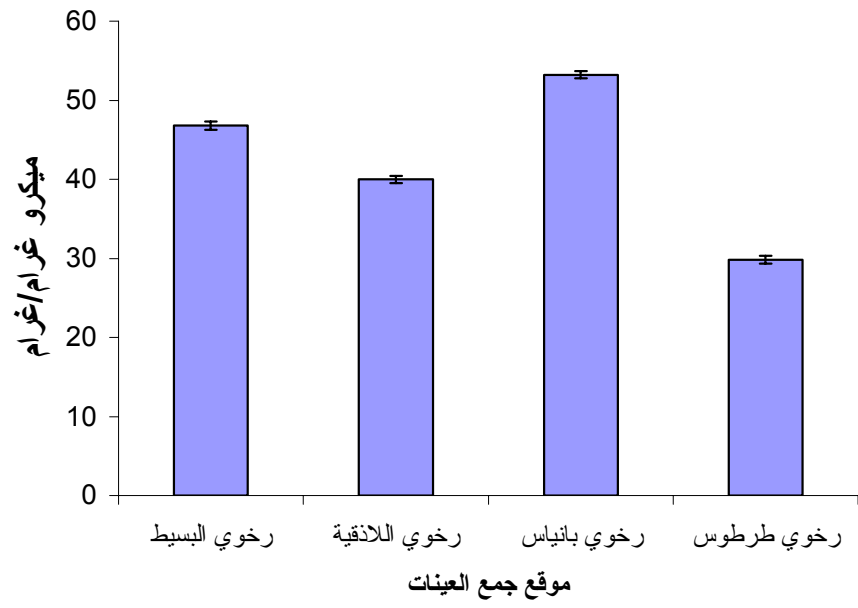
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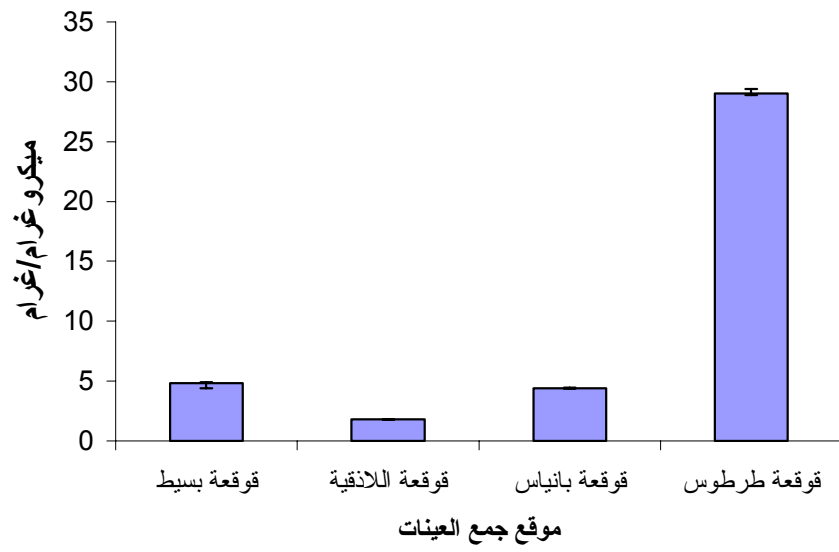
(105)



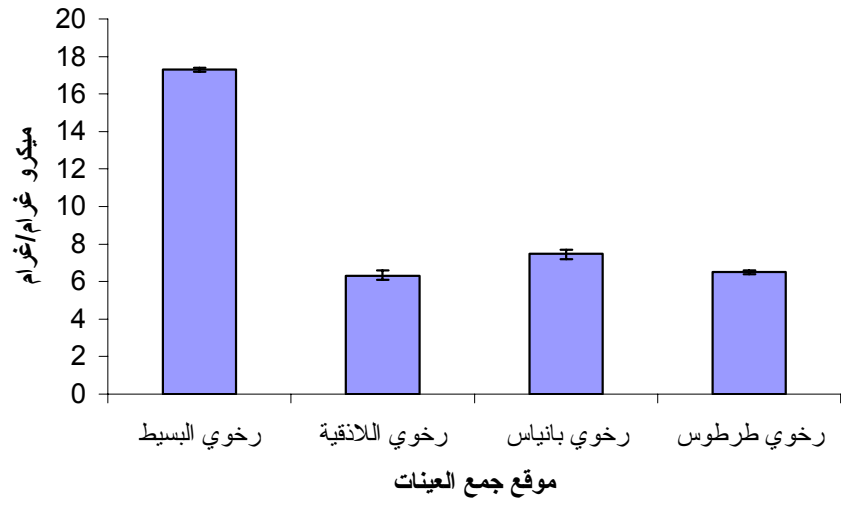
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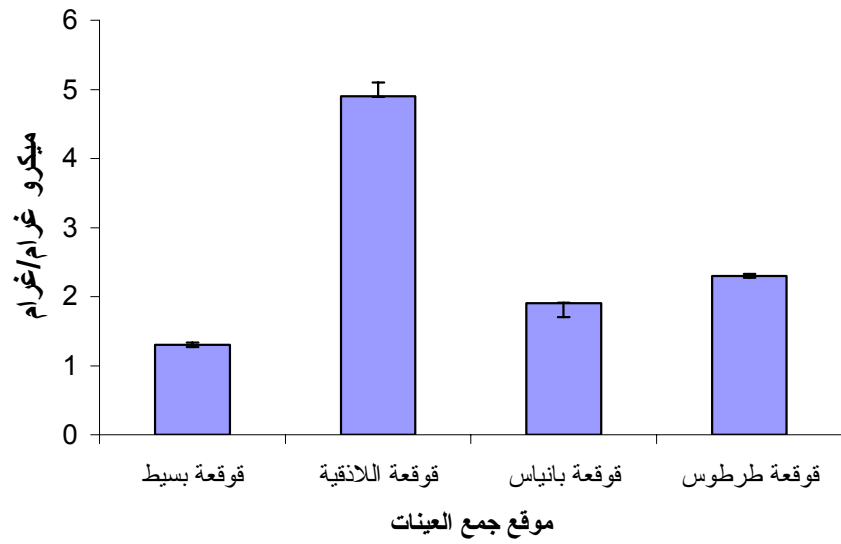
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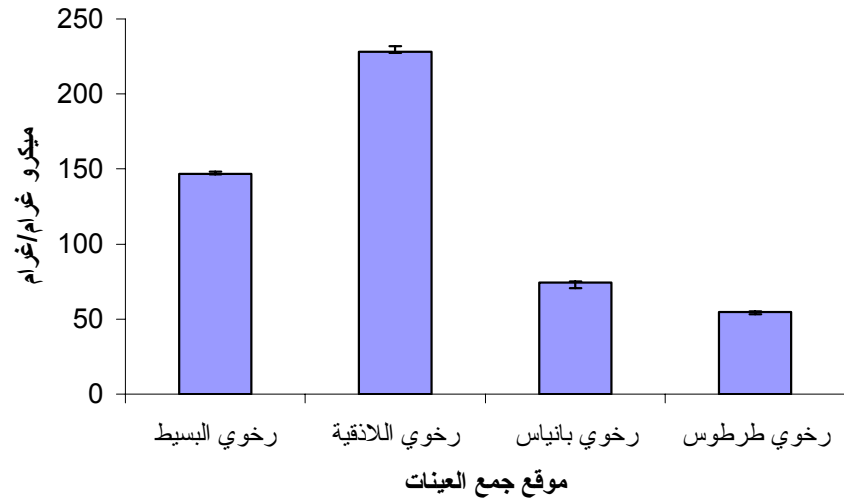
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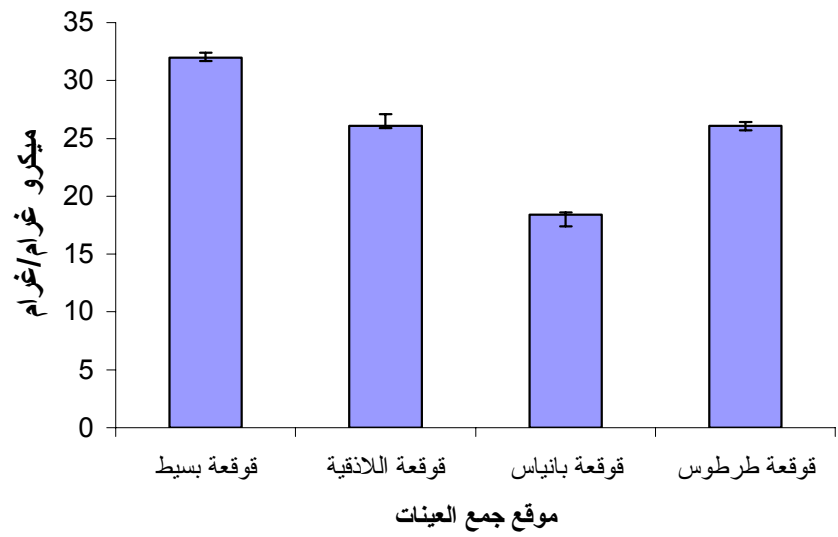
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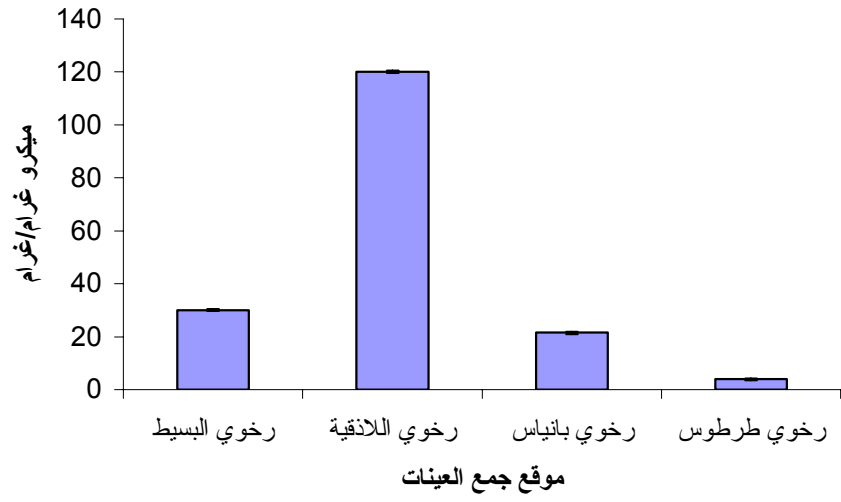
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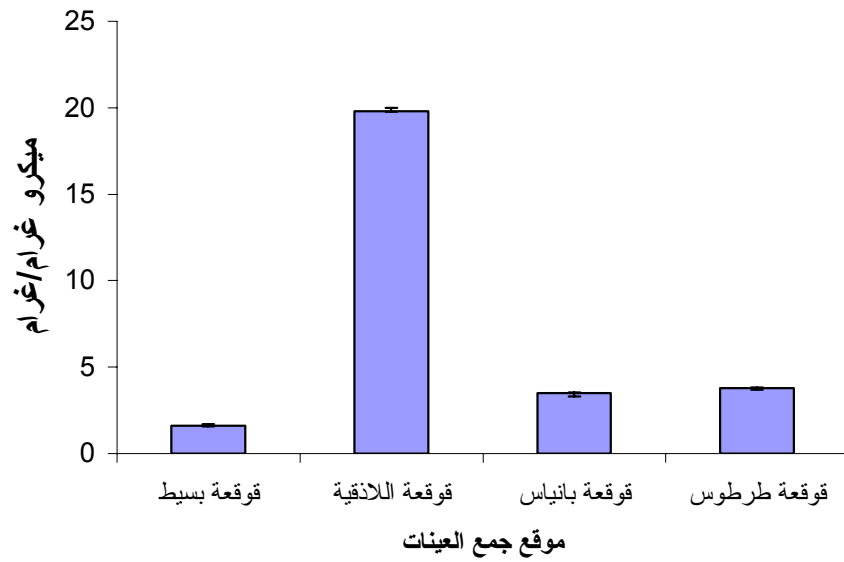
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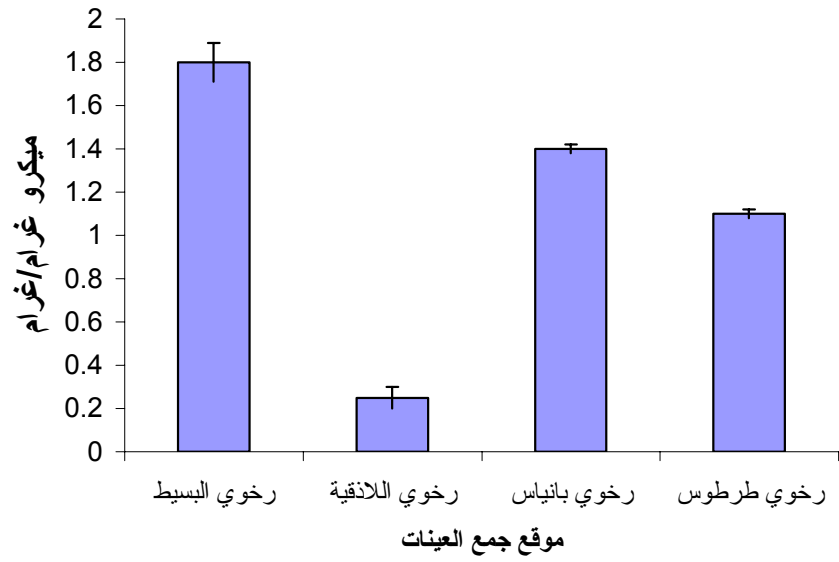
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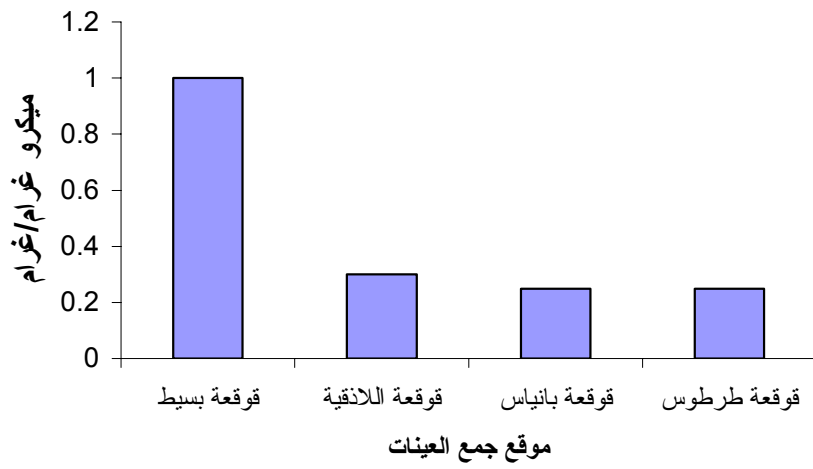
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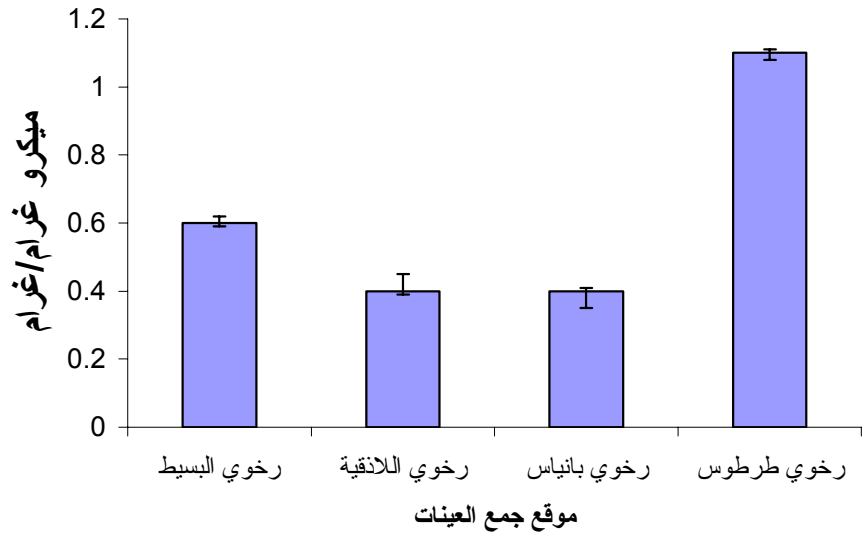
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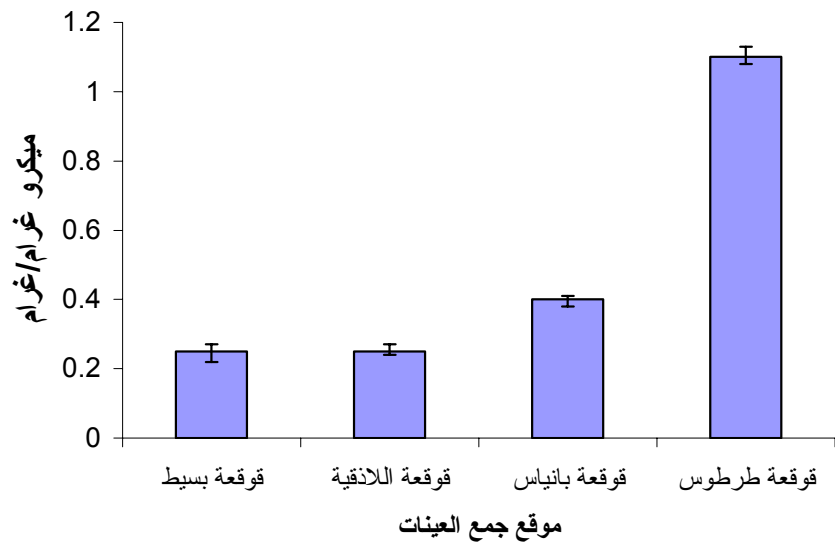
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(116)

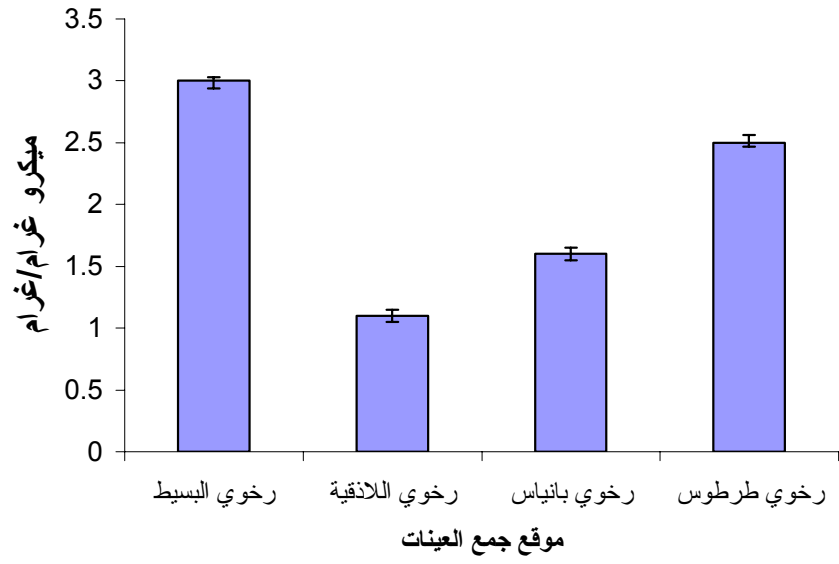


(117)

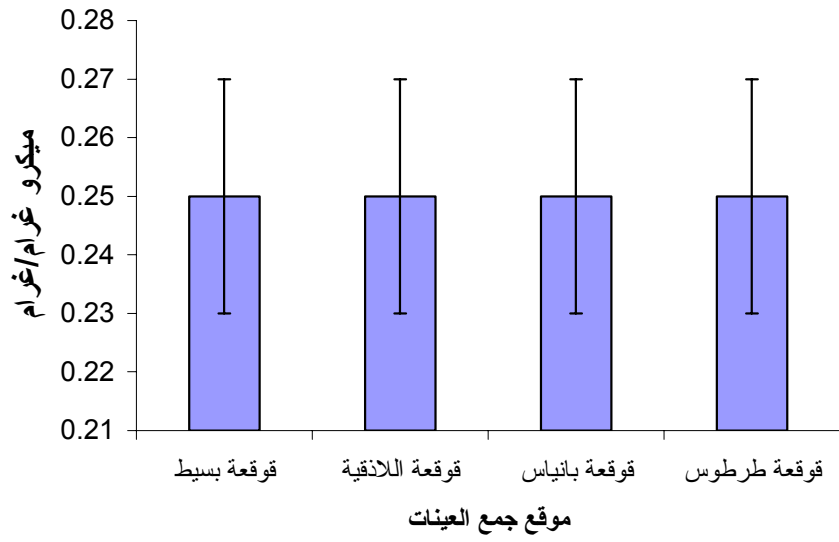


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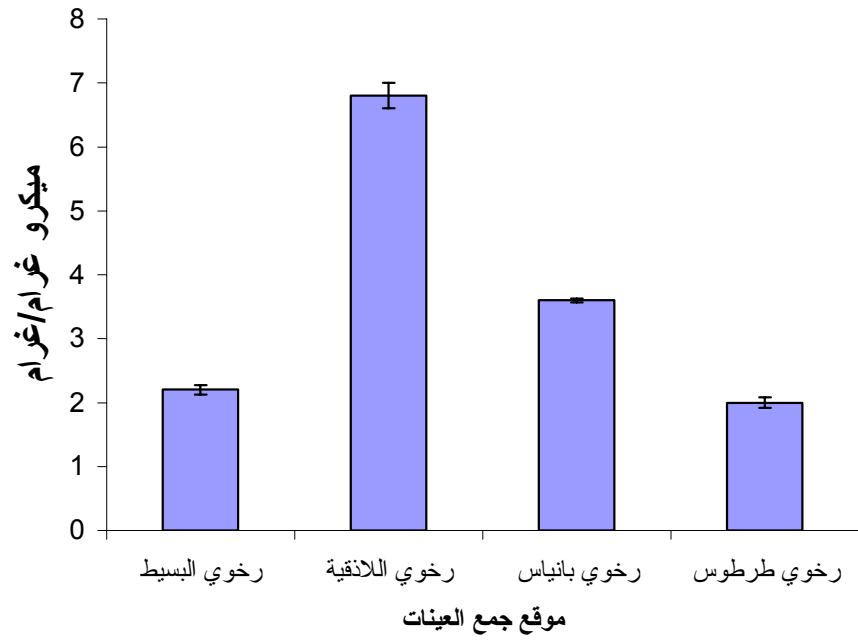




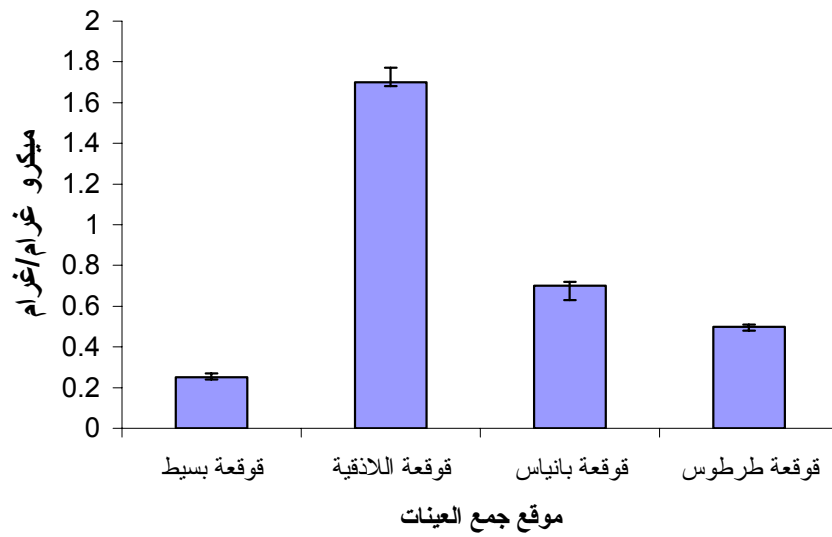
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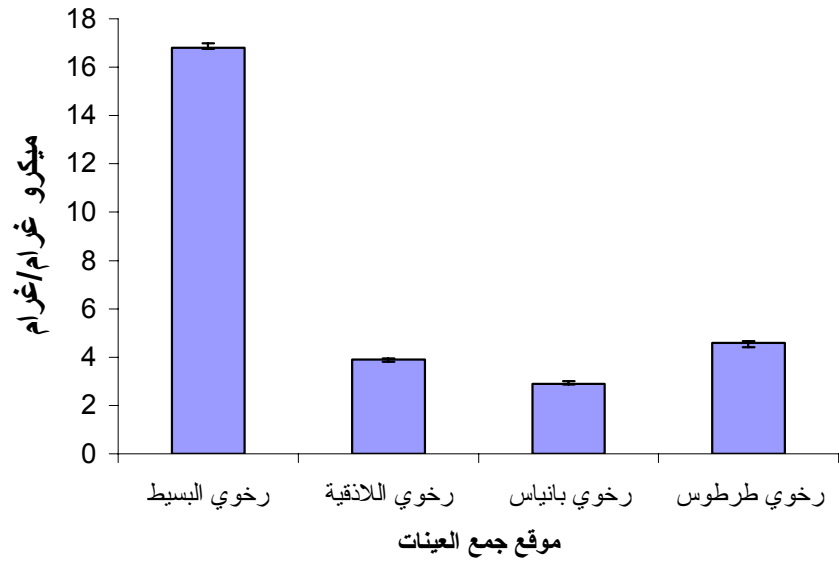
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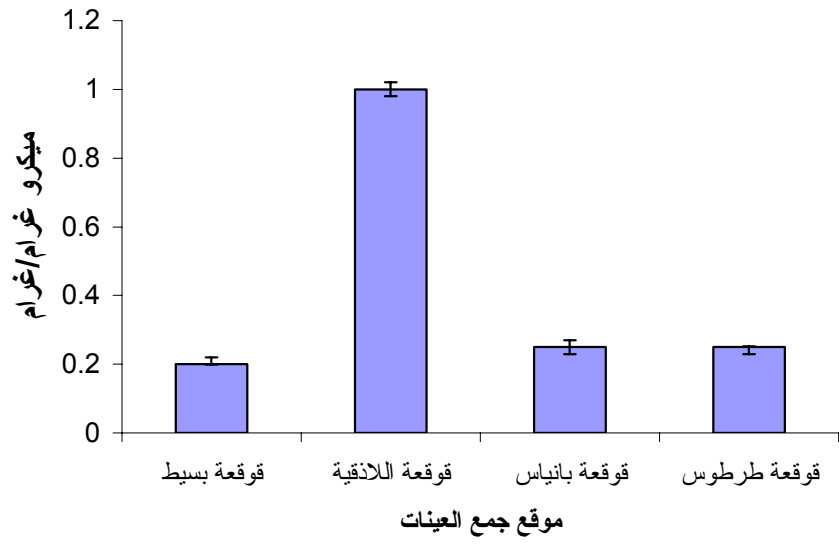
(121)



(122)



(123)



(124)

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**Report on Scientific Laboratory Study  
Department of Protection and Safety**

**A Radioactivity Study of Mollusca Distributed  
Along the Syrian Coast**

**Dr. M . S .Al-Masri  
Dr . I .Ammar  
S . Mamish  
M . A . Haleem**

AECS - PR \ RSS 702

October 2006