

:

Citrobacter.sp, ()

| |

E.coli , Pseudomonas.sp

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yy

()
 Smiejan
Rphodospirillum rubrum

()
 Jenetes
Chlamydomonas reinhardii

()

()

()
Pseudomonas MGF-48

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 ()
Pseudomonas CW-96- Wang
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ÿ ()
 ÿ ÿ ÿ *Klebsiella Planticola* Sharma
 I I -Cd-I

ÿ I
 C B,A ()

ÿI

(A₁, A₂, A₃ - B₁, B₂, B₃ - C₁, C₂, C₃)

()
Klebsiella Choudhury
Pneumonia

l ()
() GPS

y

()

()

(Freez dryer)

(l l)

y

(Nutrient Broth)

y

(OD₆₀₀)

(Flame Atomic Absorption Spectroscopy)

y

()

(shake)

100rpm

OD₆₀₀

(Nutrient agar)

(Biomass)

y

)

100rpm

(

y

4500rpm

()

y

y^{-y}

y

y

y



(\bar{y}_1)

(\bar{y}_2)

100rpm

Hilt Hornor \bar{y} 4500rpm

()

()

()

Barkay : ()

() T.O.M

()

()

Citrobacter.sp ,

E.coli Pseudomonas.sp ()

\bar{y}_1

(\bar{y})

() ()

E.coli

A₁ *Citrobacter.sp* \bar{y}_2 mg/lit

C₁

SPSS

Spearman

\bar{y}_1/\bar{y}_2

\bar{y}_1/\bar{y}_2

()

E.coli

C₁ A₁ *Citrobacter.sp*

B2 *Pseudomonas.sp*

(Surface metal binding proteins)

ȳȳ
(ñ /)

/

ȳȳ

/

SPSS

Spearman

)

(

T.O.M ȳ/ȳ ȳ/
T.O.M

ȳ/ȳ

∞

ȳ/

ȳ/ȳ

ȳ/ȳ ȳ/ȳ

)

.(

B2

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Pseudomonas.sp

(ñ /)

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					()
A		A-1	lÿÿ/lÿ	lÿ lÿ	/
		A-2	lÿÿ/lÿ	lÿ lÿ	/
		A-3	lÿÿ/lÿ	lÿ /	/
B		B-1	lÿ lÿ	lÿ /	/
		B-2	lÿ lÿ	lÿ /	/
		B-3	lÿ lÿ	lÿ /	/
C		C-1	lÿ /	lÿ /	ÿ/
		C-2	/ /	/ /	/
		C-3	/ /	/ /	/

(ppm)

-

A	A ₁	lÿ
	A ₂	/
	A ₃	/
B	B ₁	/
	B ₂	lÿ
	B ₃	
C	C ₁	/ ÿ
	C ₂	/ ÿ
	C ₃	/

() T.O.M

-

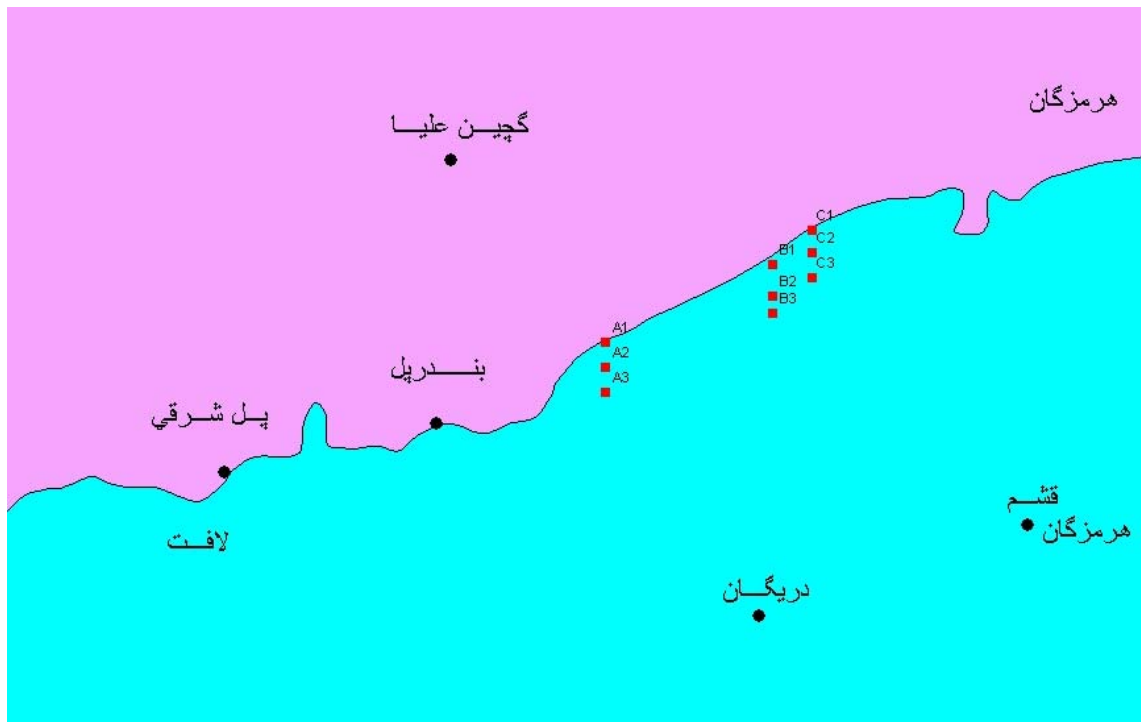
		T.O.M
A	A ₁	/
	A ₂	/
	A ₃	/
B	B ₁	/
	B ₂	/
	B ₃	/
C	C ₁	/
	C ₂	/
	C ₃	/

-

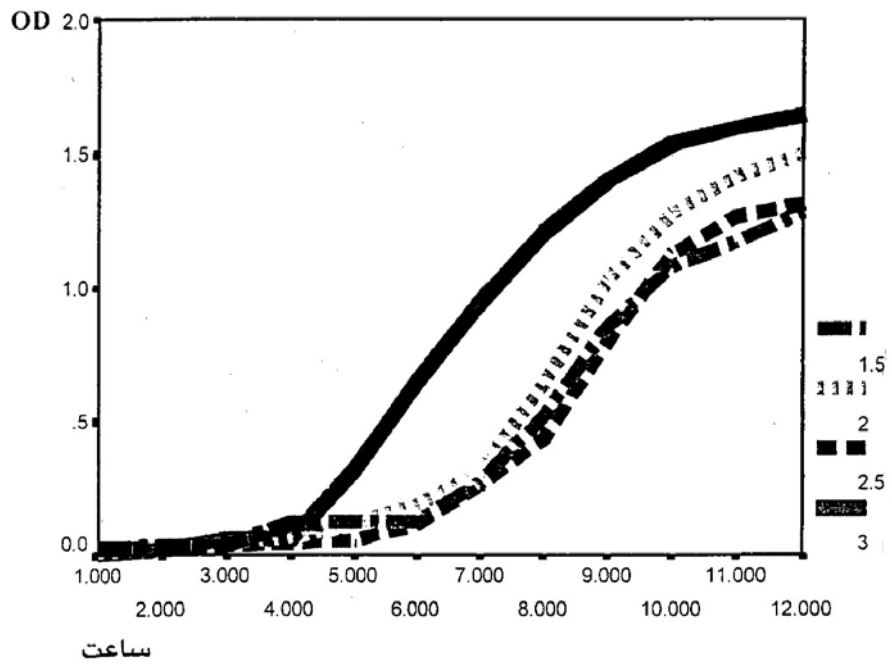
			()			
A	A-1	-				<i>Pseudomonas.sp</i> <i>Citrobacter.sp</i>
	A-2	-				<i>Pseudomonas.sp</i>
	A-3	-				<i>Pseudomonas.sp</i>
B	B-1	-				<i>Pseudomonas.sp</i>
	B-2	-				<i>Pseudomonas.sp</i>
	B-3	-				<i>Pseudomonas.sp</i>
C	C-1	-				<i>Pseudomonas.sp</i> <i>E.coli</i>
	C-2	-				<i>Pseudomonas.sp</i>
	C-3	-				<i>Pseudomonas.sp</i>

-

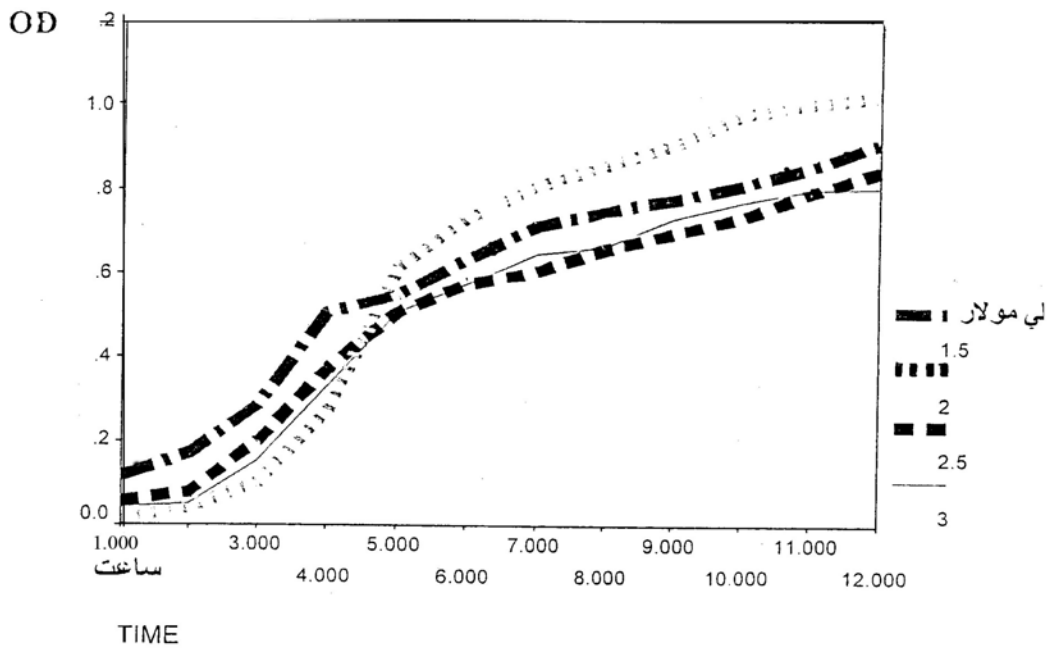
			(Mg/1)	(Mg/1)	(ñ)
A	A-1	<i>Pseudomonas.sp</i>	100	69.5	30.5
		<i>Citrobacter.sp</i>	100	63	37
	A-2	<i>Pseudomonas.sp</i>	100	59	41
	A-3	<i>Pseudomonas.sp</i>	100	67.2	32.8
B	B-1	<i>Pseudomonas.sp</i>	100	60.8	39.2
	B-2	<i>Pseudomonas.sp</i>	100	33.5	66.5
	B-3	<i>Pseudomonas.sp</i>	100	65	35
C	C-1	<i>Pseudomonas.sp</i>	100	73.7	26.3
		<i>E.coli</i>	100	66	34
	C-2	<i>Pseudomonas.sp</i>	100	57.8	42.2
	C-3	<i>Pseudomonas.sp</i>	100	77	23



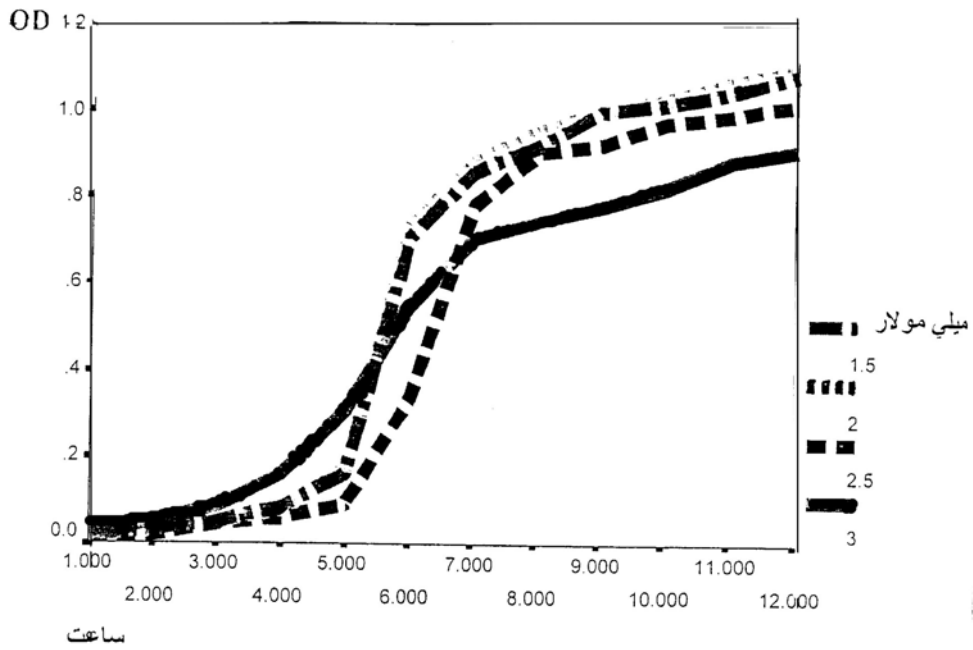
-



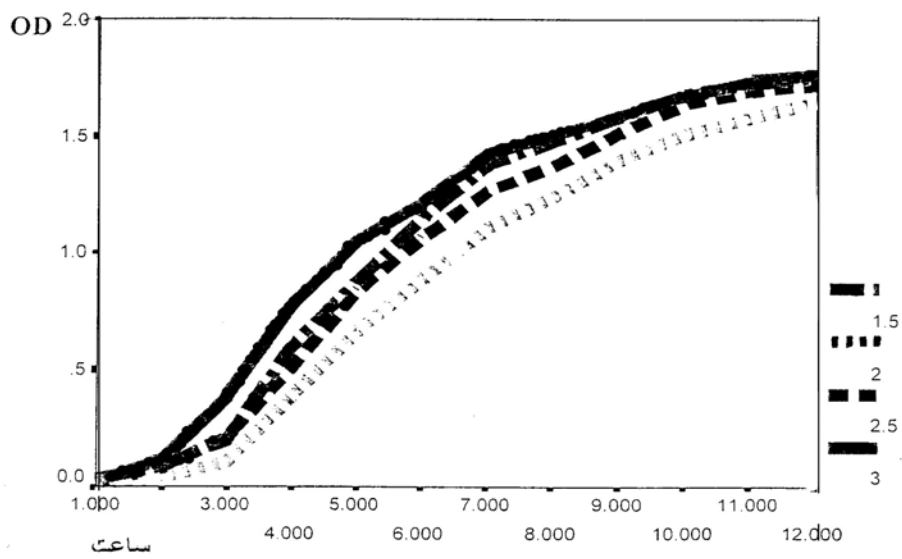
A-1 *Pseudomonas.sp* -



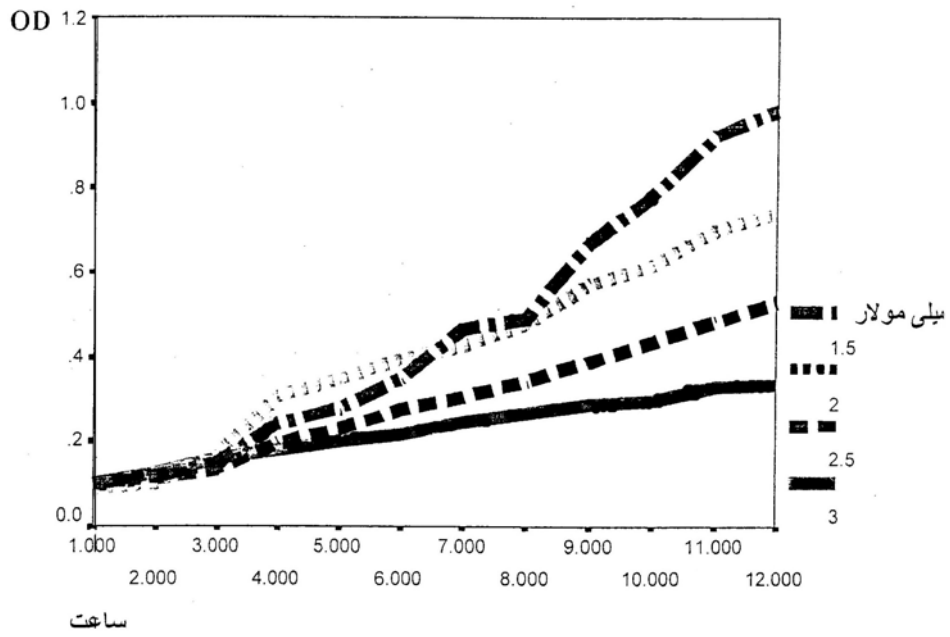
A-1 *Citrobacter.sp* -



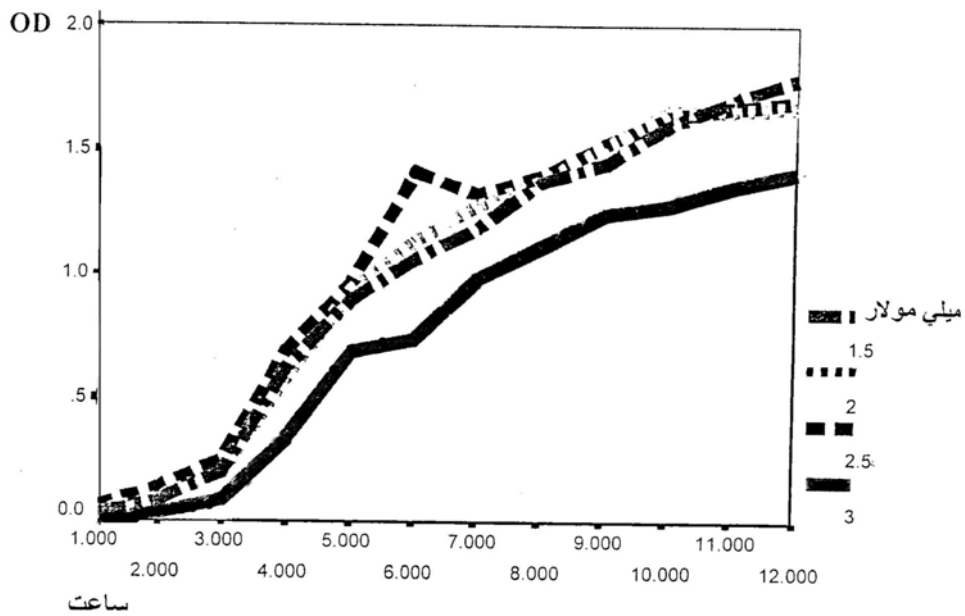
A-3 *Pseudomonas.sp* -



B-2 *Pseudomonas.sp* -



C-1 *E.coli* -



C-2 *Pseudomonas.sp* -