



() -

*

pH= /

()

A₁

A₁

/ / : - // :

*

)

/

.()

(Clark)

.() (

IV I

.()

.()

.()

.()

.()

-

.()

.

.

()

I

-

.

-

Sprague-Dawely

.()

% /

.

.()

.()

Carcharhinus sorrah

-

)

.

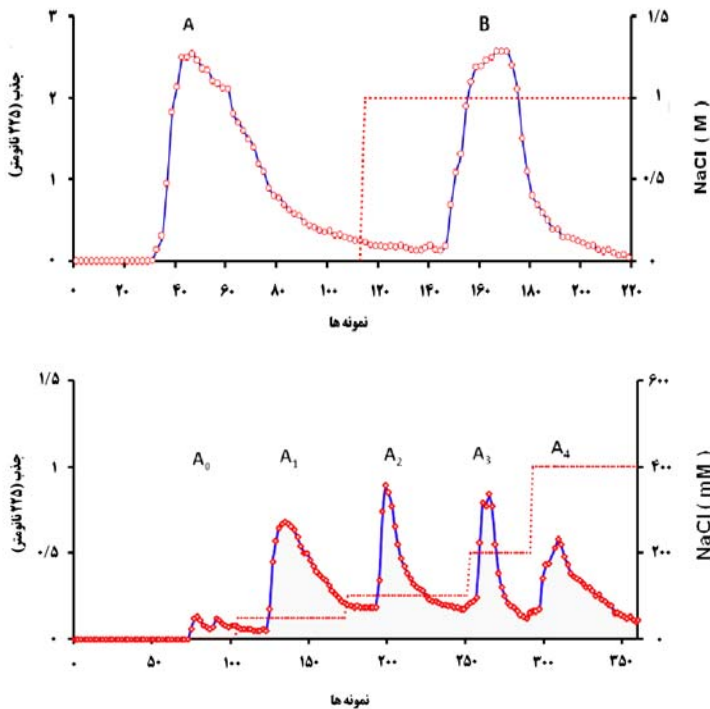
/ /
 (
 (A₀) .
 - / - .
 pH pH- /
 NaCl
 .
 .()
 xg
 (BSA) .
 .()
 (SDS-PAGE)
 SDS - / cm) Q-Sepharose FF
 .() Tris-HCl (×
 R-250 pH- /
 (Lohman)
 NaCl
 -
 () % Sp-Sepharose FF
 - (× / cm)
 / pH- /
 .() .

(Blinded observer method)

()
 :
 (++)
 (±) (+) (++)
 pH= /

(P < /)
 pH= / /

()



(-◇-) (....) NaCl pH= Q-Sepharose (A)
 A Sp-Sepharose (B)
 (-◇-) (....) NaCl

/

/

 (A_1)

B A

 (A_1)

B A

 $()$

A

 (Rat)

B

)

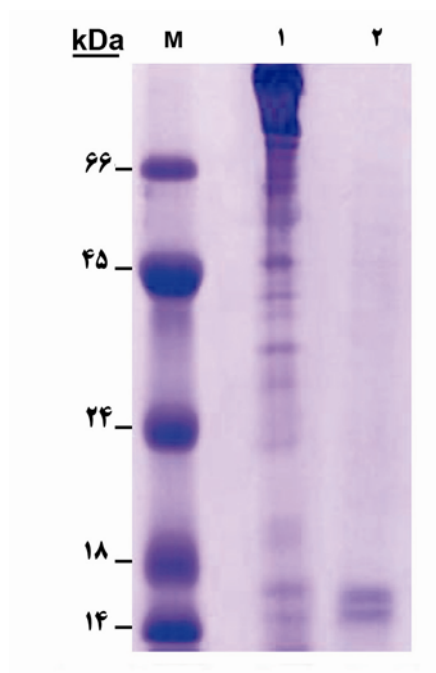
 $(A$

Sp-Sepharose

 (B_1) $()$ A_1

A

 $()$ $()$ A_1



SDS-PAGE

M: R 250

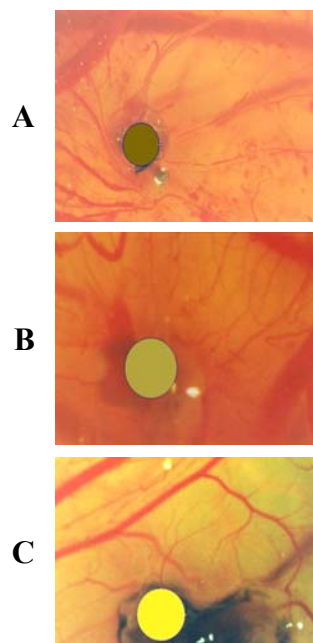
A

A₀

()

()

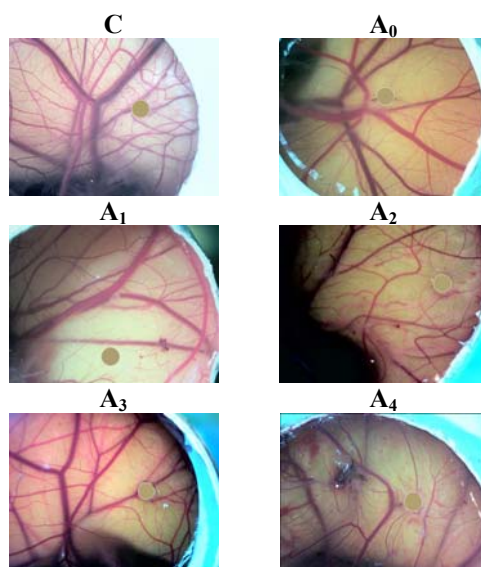
()



B A

;B A.

; C.

A₄ A₃ A₂ A₁ A₀

:

.()

Q-Sepharose

.(-)

SDS-

A_1 A

(A B)

A_1

PAGE

.(A_1)

A

.()

-

(Sheu)

(A)

(Wong)

(Liang)

.($P < /$)

A

pH

.()

A

)

.() (

A

Sp-Sepharose

(A_0 - A_4)

.(B)

.($P < /$)

A_1

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