

1994; , 1996; , 1998; B , 1998),

M M (1998).

C. M. 24

(R
 , 1991; F , 1992; F K , 1993)

1976).

(F , 1992; F , 1992; O
 , 1998)

(R , 1991; F K ,
1993; H , 1998). C

1992; F , 1992; F , 1995; O
1998)

A₂ (PLA₂)
(PDE)

C_n
(C⁺², M_n⁺², +2)
C⁺² PLA₂, M_n⁺² PDE,

1992; O , 1998). F (1992)

H M
(1996)

(100 M) B (C P),

P (F K , 1993),

(R , 1991;

F K , 1993; , 1994; B_j
F , 1994; P , 1997; G -R , 1998;

H , 1998). G (1993)

1991). G (1993)

I
(EQ)
(EN),

() -EQ

C aM c M (

) C aM a a (C P)

-EQ

(F K , 1993).

2. Ma a a

2.1. R a a

A ()
C A. N 14%

M 12
I , I A. A
(HPLC) F A.

M M F C HPLC F
C , CO, A.

2.2. V a a

(M , 1988),

a x B (EA), C aM

EQ, EN (50 μ L), 0.2 M, (K, 2001; L, M, K, 2004).
 EQ, EN, R, EN, EQ, C, F, C, M, M, R, C, D, 50/50, 0.5, MALDI M, (K, MALDI I).

2.4. I b C P V a c EQW
 C P (C a M, a a, a a), C P C a M, c e M, H 8.25 (M, 1996). M (10 μ L, 190), (ED A, EG A, 1,10), EQ 30 (M, 1996).

2.5. S ab M c e a M e a e 96 37 °C 5.0 M

EQ, A, 10, 1, 2, 4, 8, 12, 24, 48, 72, 96, (A, 1991); D -PAGE (N, 14%, 2-

3. R (F, 1A B) EN 7.55 \pm 0.05 EQ 7.95 \pm 0.05

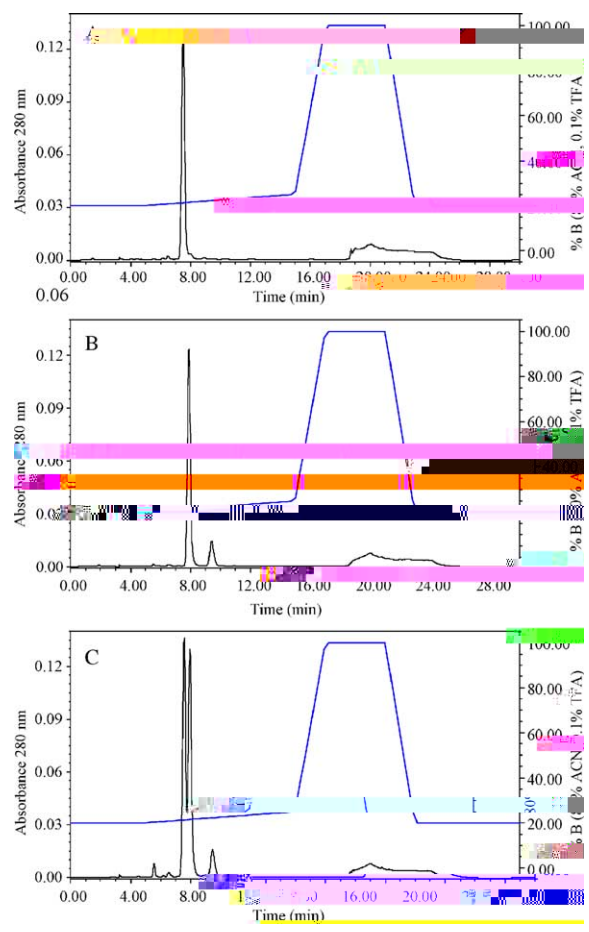


Fig. 1. RP-HPLC (A)

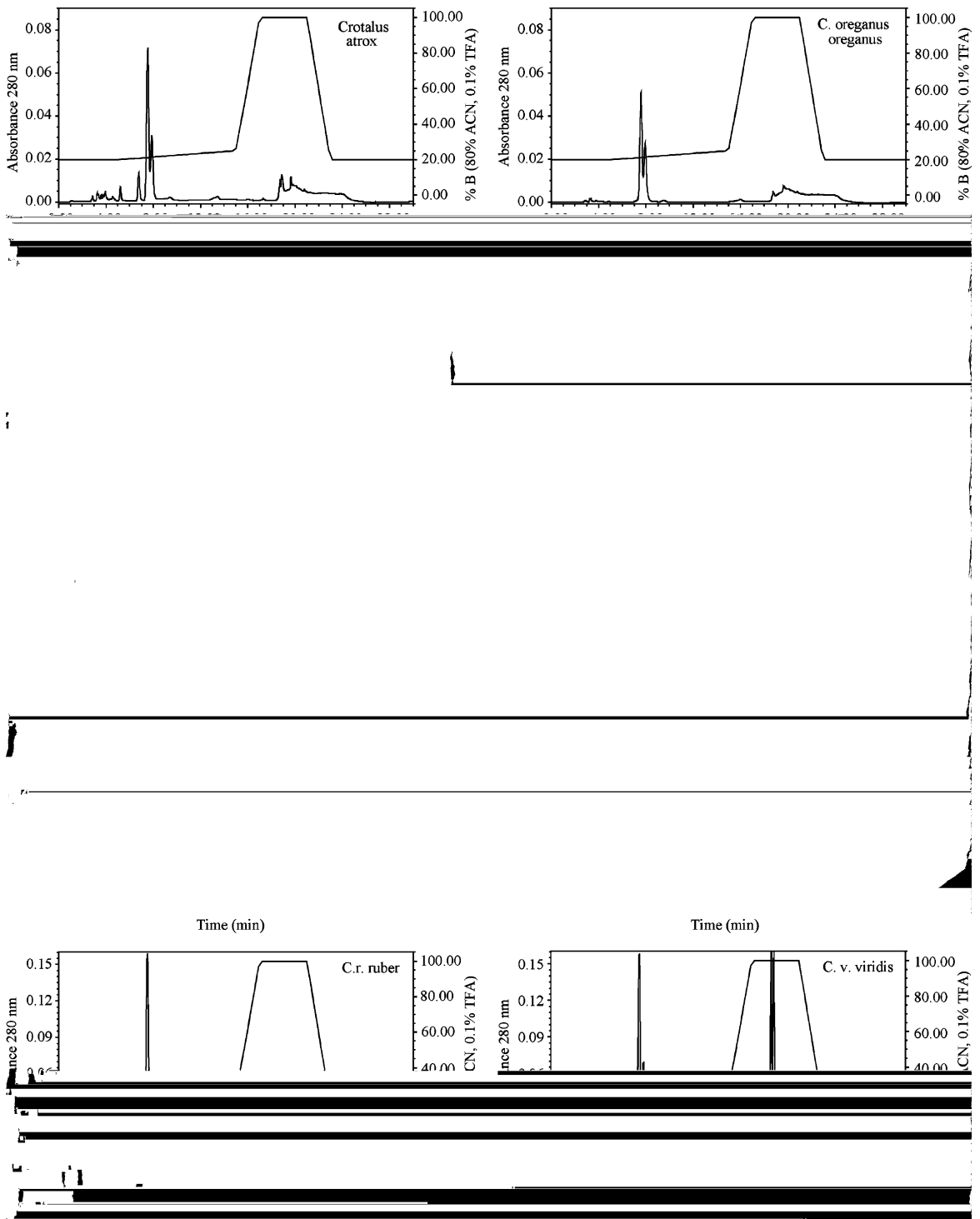
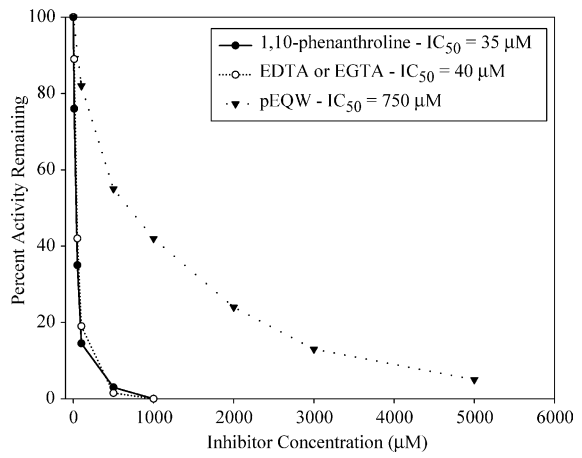
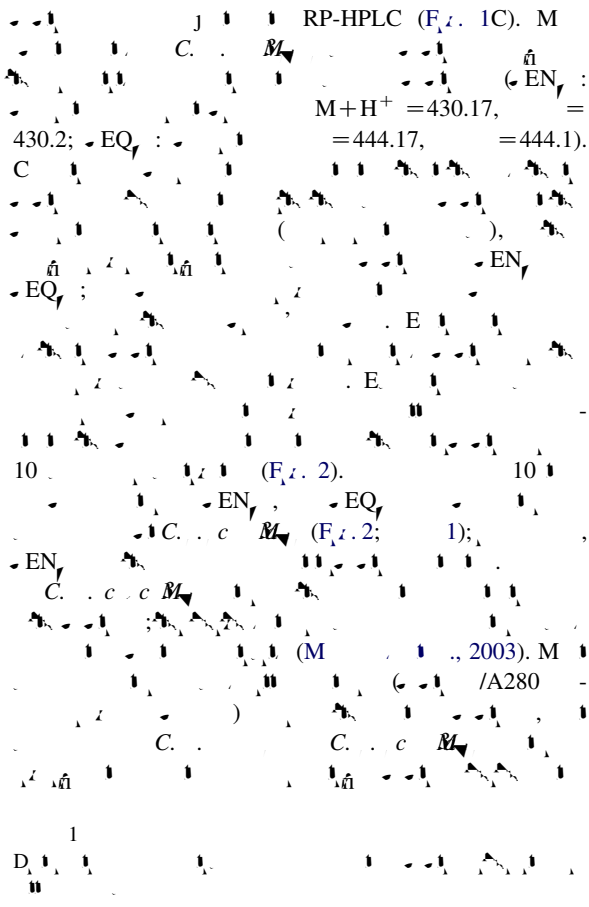
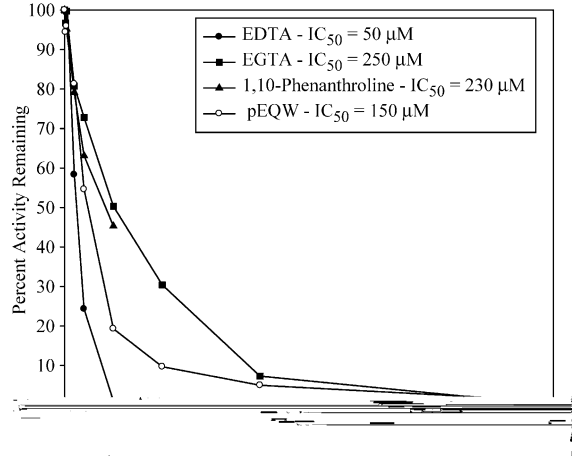
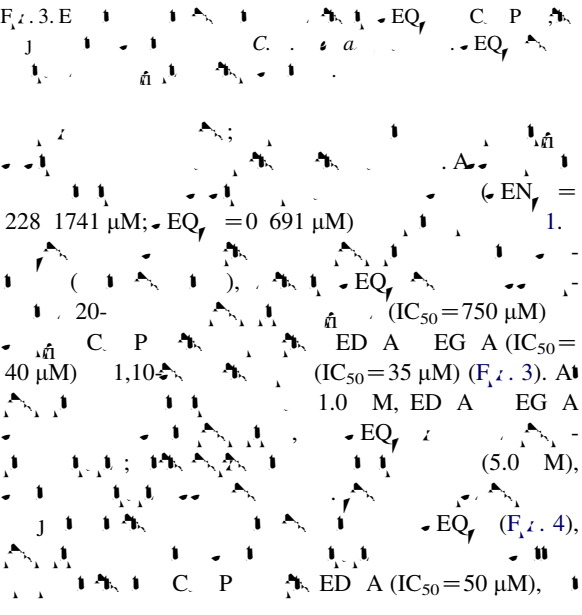


Fig. 2. RP-HPLC... (50 μ L)... 3 D... P... 7.5 8.0... I. N... Y... C. b... C... C. c... B...



	% EN	µM EN	% EQ	µM EQ	
C. <i>ab</i>	69.3	704	30.7	293	(+)
C. <i>a</i>	81.3	511	18.7	110	(+)
C. <i>c</i>	71.3	914	28.7	345	–
C. <i>M</i>	75.6	665	24.4	201	–
C. <i>bx</i>	81.4	790	18.6	169	–
C. <i>c</i>	100	635	0	0	(+)
C. <i>a</i>	70.4	228	29.6	90	(+)
C. <i>a</i>	62.1	507	37.9	291	–
C. <i>ca</i>	70.3	1741	29.7	691	+
S. <i>ca</i>	55.5	452	44.5	340	–



EN, EQ; % EN, EQ; µM EN, EQ; (+), (–)

Fig. 4. E, EQ

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(M., 1985)

C. *bx*

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