

3. f- (-), d- () -

4. - ,

5. ,

f-f , [1].

(Eu) (), [2-7].

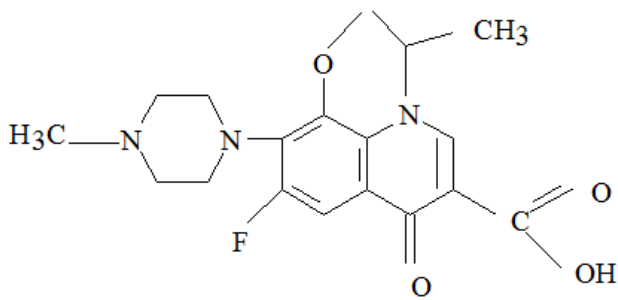
[8-9].

200-1400 , f-f 4f- .

« 4f- » (), 4f- .

0,0903 , (), 50 .

LS-55 ().

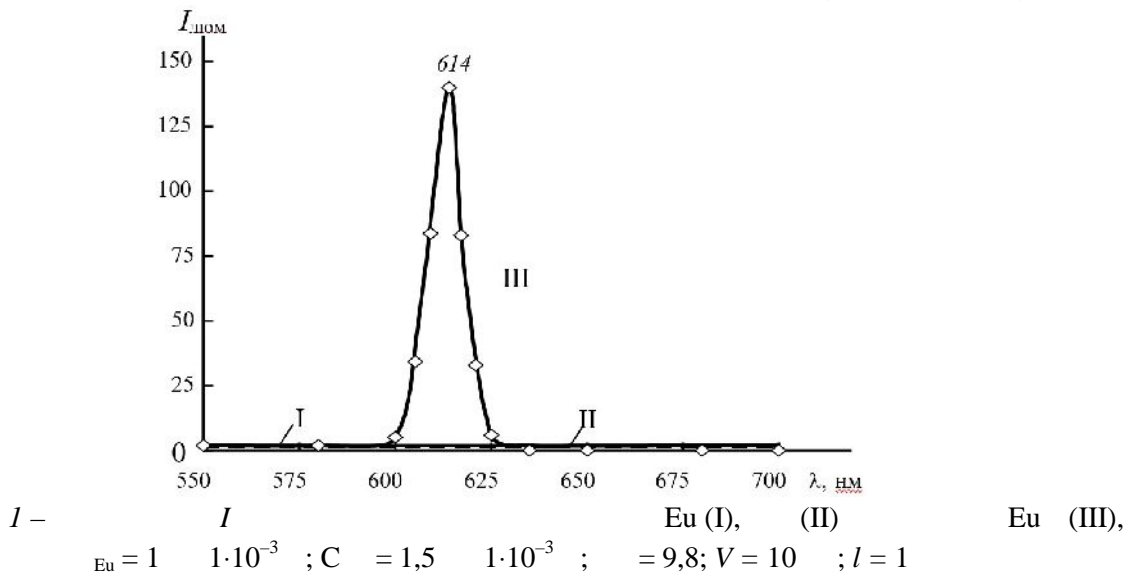


$C_{18}H_{20}FN_3O_4$ (ОФ)
 МВ=361 г/моль
 метил-1-пиперазинил)-7-оксо-7 Н

9-фтор-2,3-дигидро-3-метил-10-пиридо
 (1,2,3-de)-1,4-бензоксазин-6-карбоновая кислота

— $(EuCl_3)$, —
 99,5–99,9 % —
 650–700 ° —
 Eu_2O_3 1 / 1,1 —
 (), —
 1 [10].

(I).
 614 ,
 240–320 (= 290).



Eu: = 2:3. (I)
 pH = 9,8, HCl NH₄OH [11].
 f- d- I Eu
 = 3 1·10⁻³; = 614 , = 9,8, V = 10 . Eu Eu = f- = d- = 1 1·10⁻³ ,
 (I). I Eu

$I -$ () I Eu , $E_{Eu} = 1$
 $1 \cdot 10^{-3}$; $= 3$ $1 \cdot 10^{-3}$; $\lambda = 614$; $pH = 9,8$; $V = 10$; $l = 1$ c

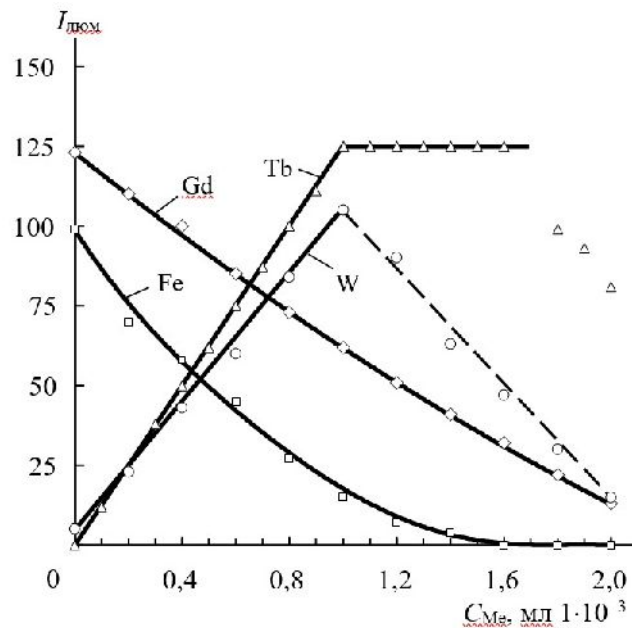
	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
E_{Eu}	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
,	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
I	79	90	45	42	54	32	145	65	160	90	5	6	5	5	24

d- : Ga W I Eu , (2).

2 - d- I Eu , $E_{Eu} = d- = 1$ $1 \cdot 10^{-3}$;
 $= 3$ $1 \cdot 10^{-3}$; $\lambda = 614$; $pH = 9,8$; $V = 10$; $l = 1$ c

d- , 1 , $1 \cdot 10^{-3}$	Eu	Ga	Fe	Co	Ni	Ti	Zn	W	Mo	Pb	Sn
$E_{Eu} \cdot 1 \cdot 10^{-3}$,	1	1	1	1	1	1	1	1	1	1	1
, $1 \cdot 10^{-3}$,	3	3	3	3	3	3	3	3	3	3	3
I	142	160	16	13	0	0	98	174	130	100	165

I Eu - - Gd Fe
- Tb W (2).



2 - I Eu - Gd, Fe
- Tb W, $C_{Eu} = 1$ $1 \cdot 10^{-3}$; $C_{Gd} = C_W = C_{Fe} = C_{Tb} = 1 \cdot 10^{-3}$;
 $\lambda = 614$; $pH = 9,8$; $V = 10$; $l = 1$

I Eu -
0,0 n Eu.
2, - I Eu , -
- , I Eu .

(III)

Eu³⁺

Eu –

2:3.

»

pH –

D

F ,

(pH = 9,8),

614 ,

Eu³⁺ .

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