

1. 松原 伸

松原 伸

2. 松原 伸

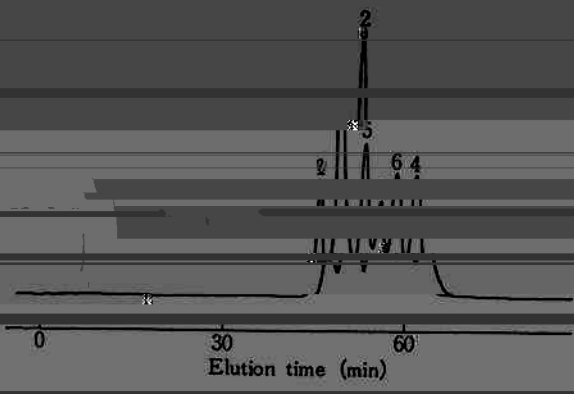
3. 松原 伸

Table 1. Continued

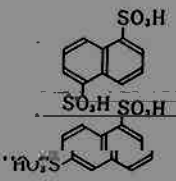
Sample	Pairing ion
Naphthalene-1,6-dicarboxylic acid	Tetraethylammonium



Sample	Pairing ion
Phthalic Acid Isomers	Cetyltrimethylammonium



Phthalic Acid Isomers Cetyltrimethylammonium

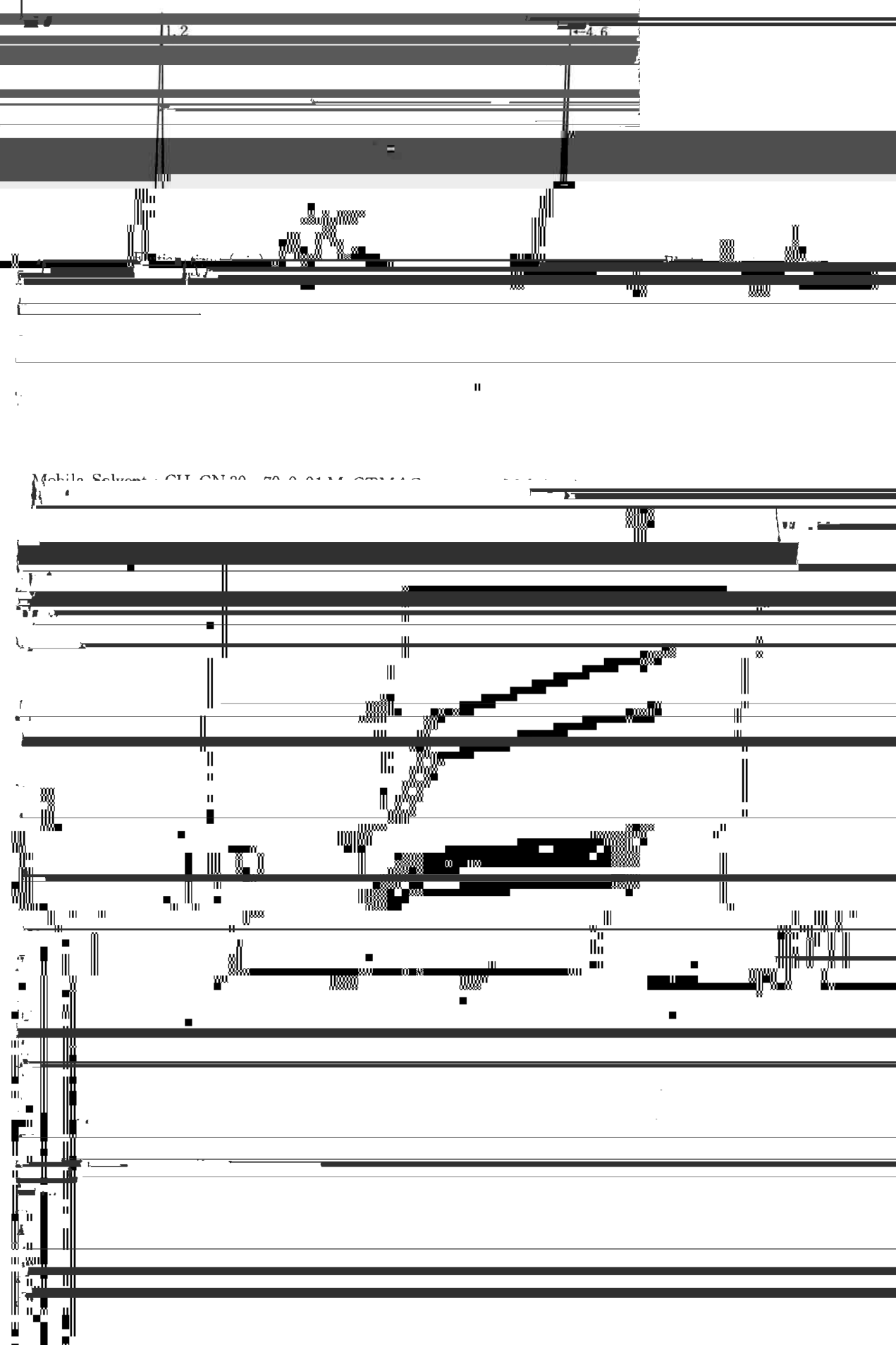


HO-S-O-SO₃H

1.2

4.6

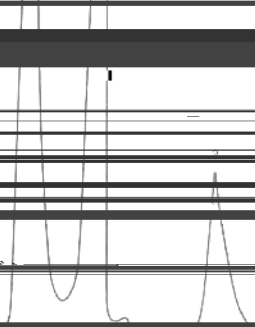
Mobile Select - CH-CN00 - 50.0.0115 - 001110





Carbon number of pairing ion

Carbon number of pairing ion	Methyl group	Other group
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吉野善法博士の化学論文の整理と索引

(2) 2-NMSS

2-NMSS

-III

1.5-NMSS

0.10

KCl conc. (mol)

4.13 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

けるカチオン性試料の突出挙動

aq. + KCl

1.0

volume in paired ion chromatography



70
60
50



(2) Phthalic Acid



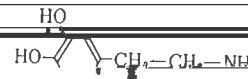
Volume (ml)

Elut

イオン対の pH による変化 (イオン対の pH による変化)

Table 4. Taurine conjugated D.L. Amino Acids

No.	Name	R ₁	R ₂	Retention Time (min)	
				Free	Conjugated
1	Alanine	H	H	12.5	13.5
2	Valine	CH ₃	CH ₂ CH ₃	15.5	16.5
3	Leucine	CH ₃	CH ₂ CH(CH ₃)CH ₃	18.5	19.5
4	Isoleucine	H	CH(CH ₃)CH ₂ CH ₃	21.5	22.5
5	Phenylalanine	H	CH ₂ CH ₂ Ph	24.5	25.5
6	Tyrosine	H	CH ₂ CH ₂ CH ₂ Ph	27.5	28.5
7	Asparagine	H	CH ₂ CONH ₂	30.5	31.5
8	Glutamine	H	CH ₂ CH ₂ CONH ₂	33.5	34.5
9	Proline	H	Cyclic	36.5	37.5
10	Hydroxyproline	H	Cyclic	39.5	40.5
11	Hydroxylysine	H	CH ₂ CH ₂ CH ₂ OH	42.5	43.5
12	Ornithine	H	CH ₂ CH ₂ CH ₂ NH ₂	45.5	46.5
13	Lysine	H	CH ₂ CH ₂ CH ₂ CH ₂ NH ₂	48.5	49.5
14	Arginine	H	CH ₂ CH ₂ CH ₂ CH ₂ NH ₂ CH ₂ NH ₂	51.5	52.5
15	Putrescine	H	CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ NH ₂	54.5	55.5
16	Spermidine	H	CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ NH ₂	57.5	58.5
17	Spermine	H	CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ NH ₂	60.5	61.5



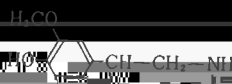
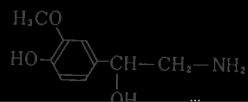
N E

HO

E

102

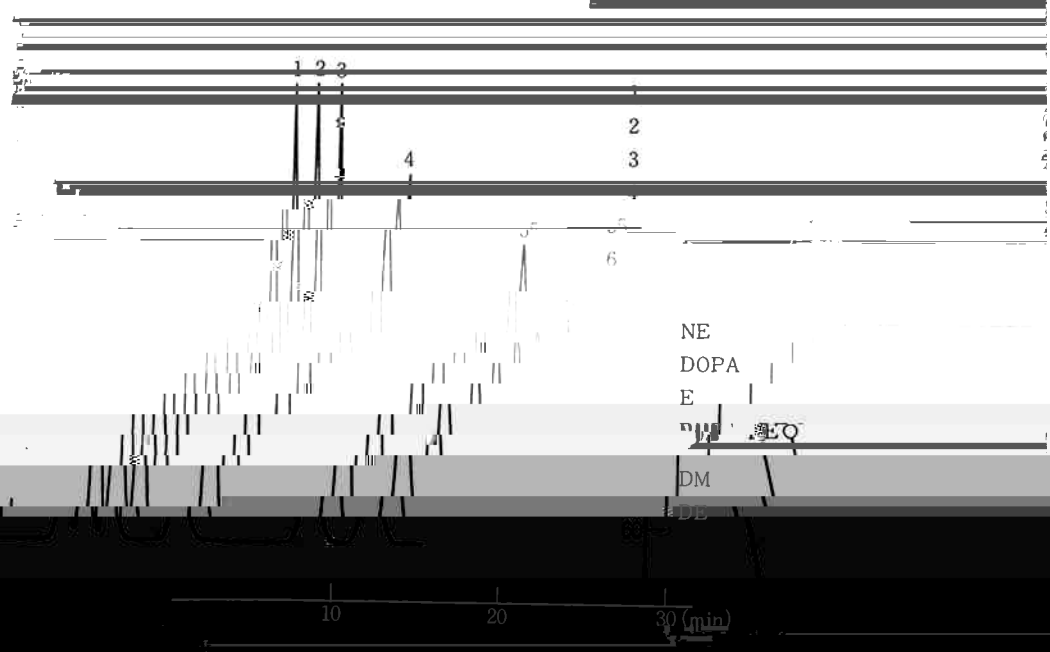
OH



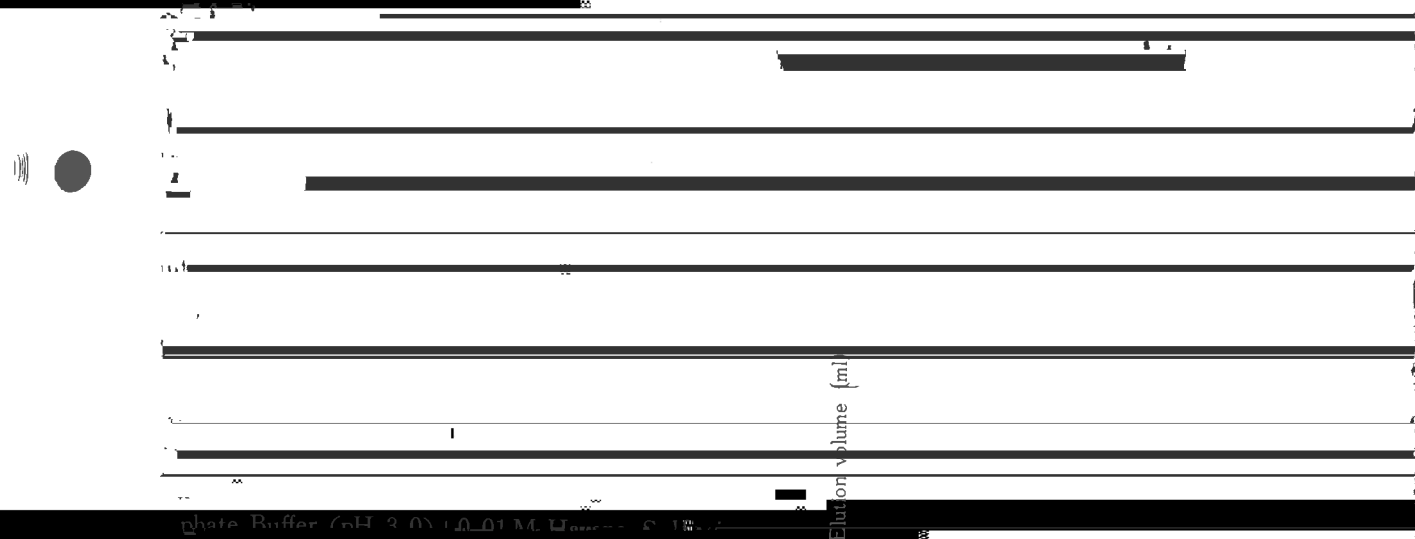
[4-(2-Aminoethyl)phenol]

Norepinephrine
(6-Hydroxy dopamine)

Epinephrine
(Methyl aminoethanolsol)



NE
 DOPA
 E
 DM
 DE



phate Buffer (pH 3.0) 0.01 M. Wavelength 210 nm

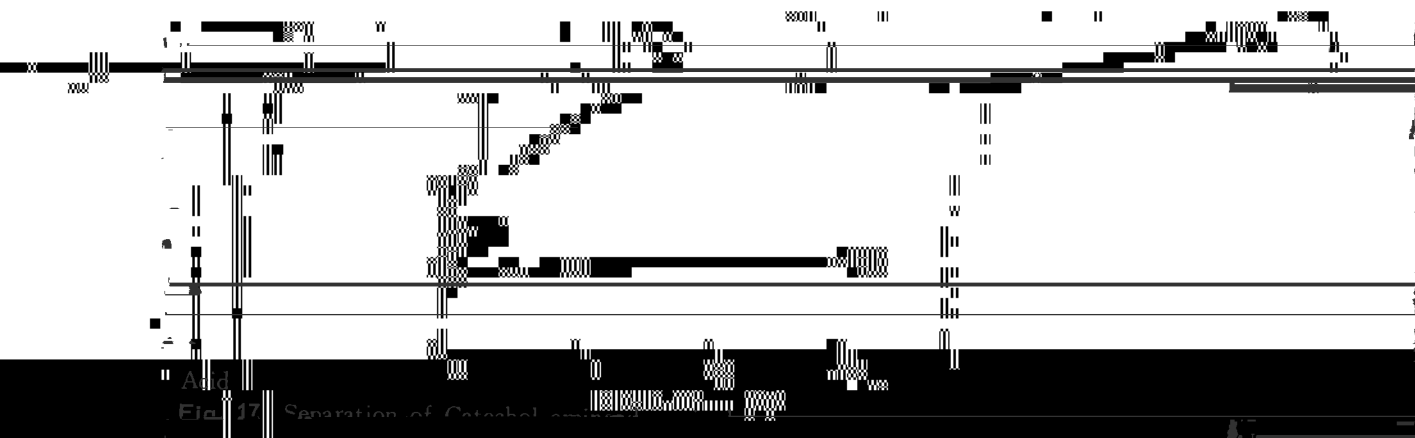


Fig. 17 Separation of Catecholamines

