

渡 辺 真



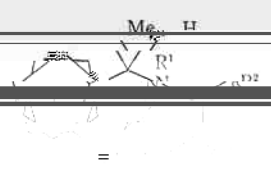
い。また材料として高機能であり、または強力な物理

活性を発現させるには、高い光学純度のアルコールの両

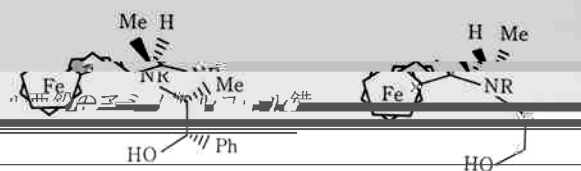
人

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R^2
 NK^* A Mp

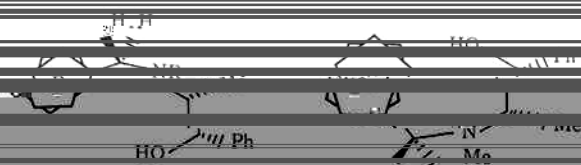


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(R=H)

(R=Me)



Me

to Aldehydes

(S)

2	PhCHO	2 d	catalyst (2) 0	HO	10	61	84
3	PhCHO	2 d	rt		7	79	93
4	PhCHO	2 d	40		3	92	95

5mol% R Et

aldehyde

yield/%^a %ee

			H ^c				
			H				
6	PhCHO	2 e	H	rt	4	94	94
7	PhCHO	2 e	H	40	2	92	94

H

H

H

H

H

H

H

H-T

H-T

H

PhCHO 2 f H

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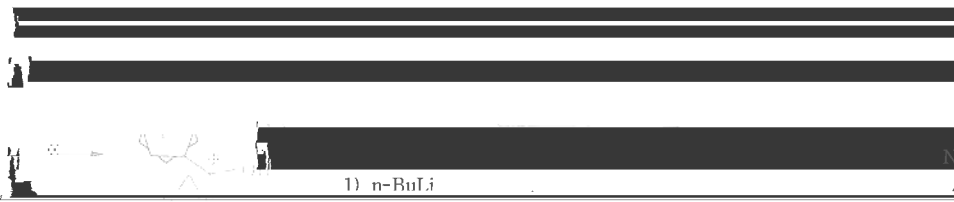
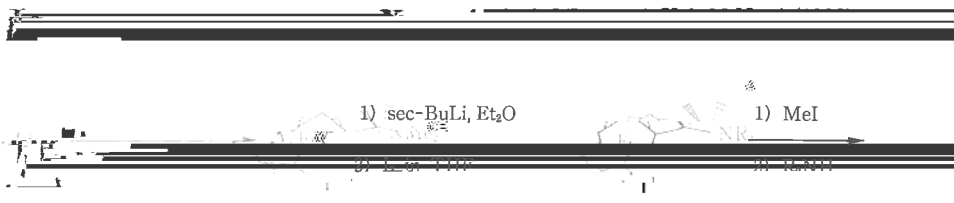
The polymerization of α -methyl styrene was carried out in the presence of various chiral polymer catalysts. The results are summarized in Table 1. The polymerization was carried out at 0°C for 8 hours. The yield of the polymer was 70% with a 55% optical activity. The optical activity of the polymer was 55% with a yield of 70%. The optical activity of the polymer was 55% with a yield of 70%.

entry	chiral polymer	time/h	yield/% ^a	%opt ^b
1	3 a	8	70	55
2	2 b	8	71	72
3	3 c	8	85	72
4	3 d	8	85	72
5	2 c	15	67	50

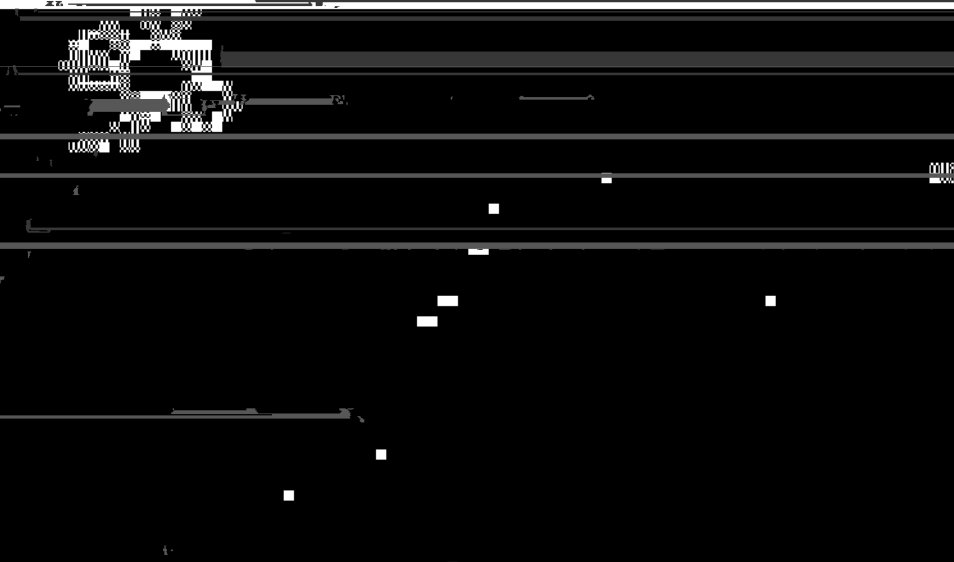
^a absolute configuration of the polymer was determined on the reported value of $[\alpha]_D^{25}$ of the monomer. ^b optical activity of the polymer.

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5c
5d
5e



- 4d H t-Bu 4q t-Bu H
- 4e i-Pr i-Pr 4r H t-Bu
- 4f Ph Ph
- 4g
- 4h

catalyst (5mol%) HO H

2000 1000

x x =

1000

1000

1000

1000

1000

1000

1000

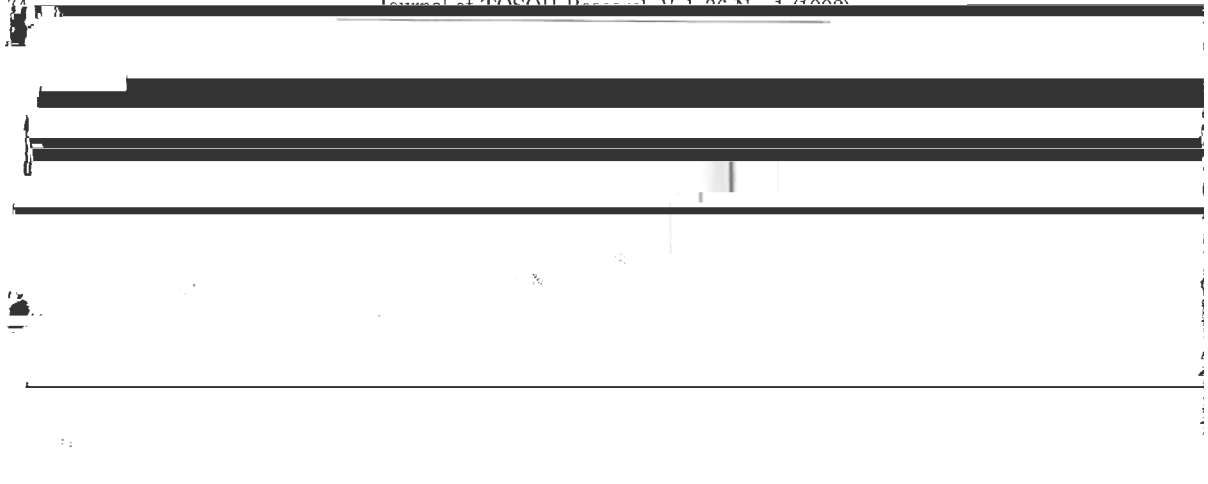


FIG. 1. *Chromatogram of the reaction mixture.*

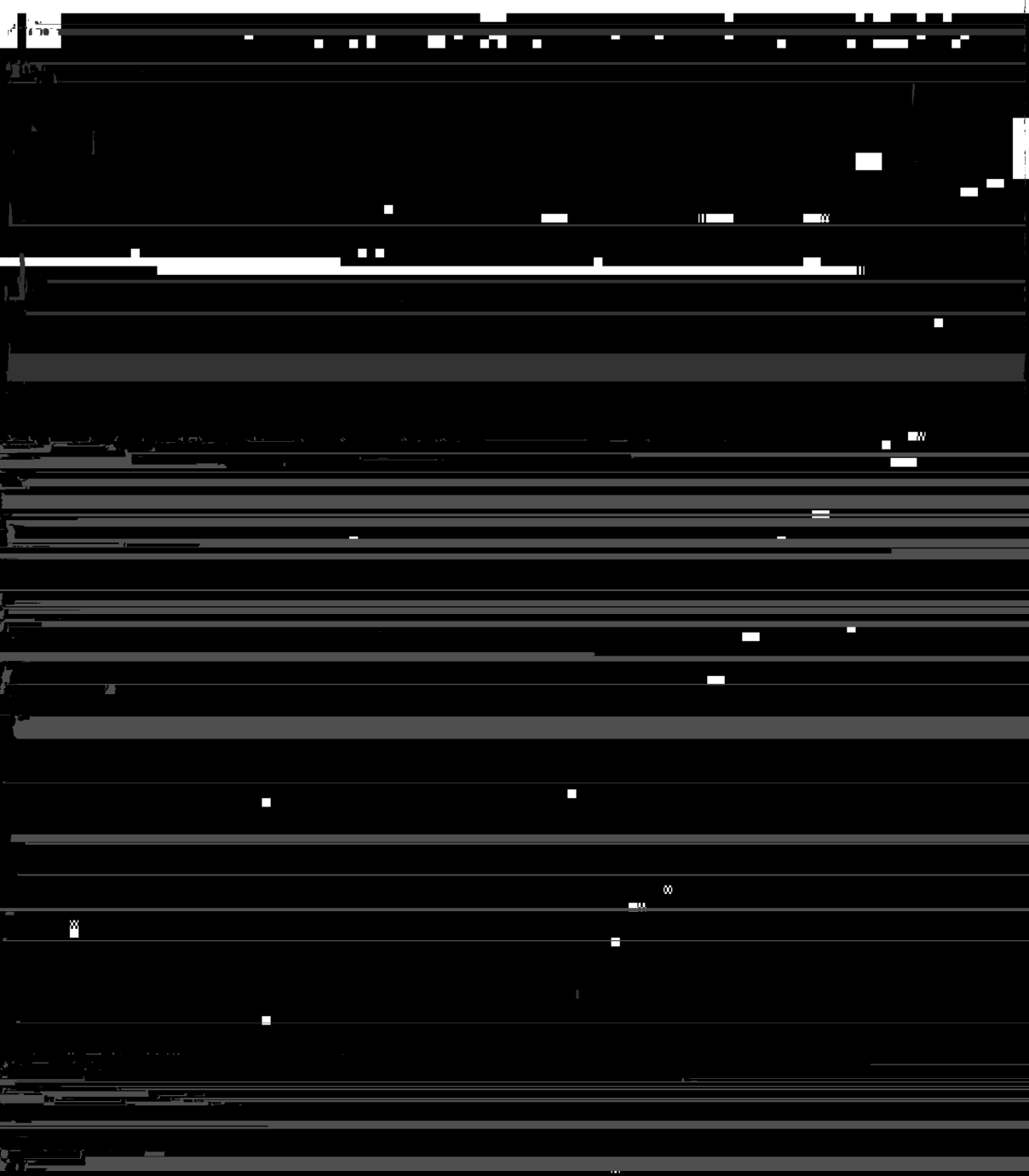
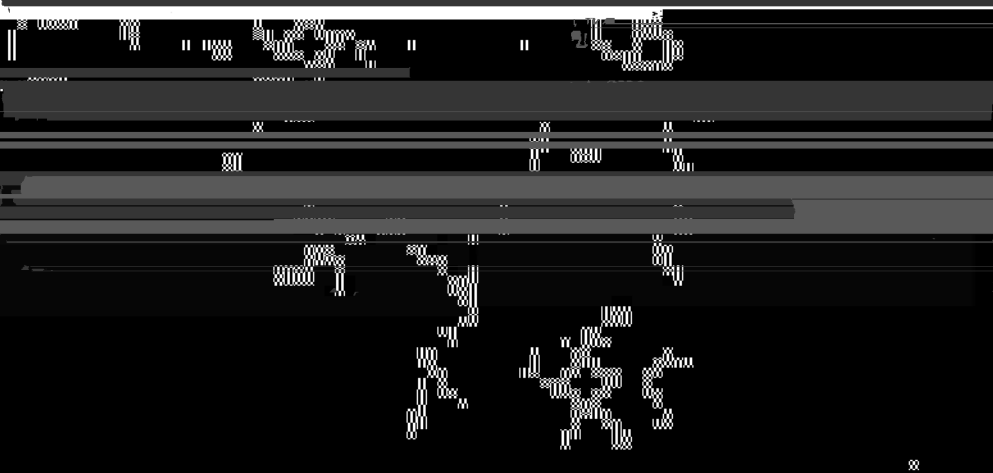


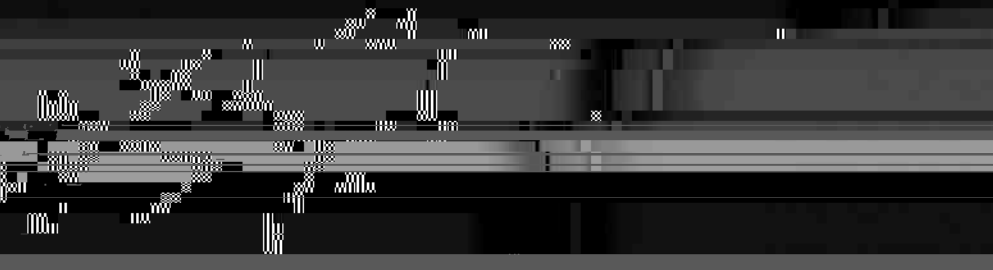
FIG. 2. *Chromatogram of the reaction mixture.*

R₂CH-CHO + Ar-CHO



22

+ ArCHO
+ R₂Zn



4 に示した。

R. H. Pickard and I. Kenvon: *J. Chem.* 1115

1971

P. M. I. D. W. I. L. O.

(1989)

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