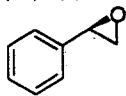


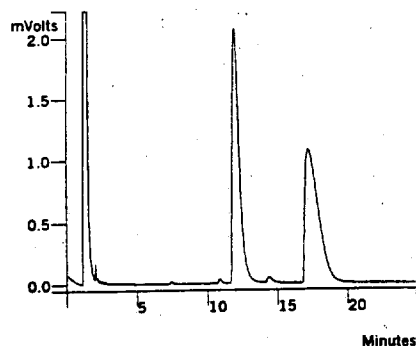
The chromatograms for the determination of enantiomeric excess of the epoxides.

(R)-(-)-Styrene oxide (Table 1, entry 1)



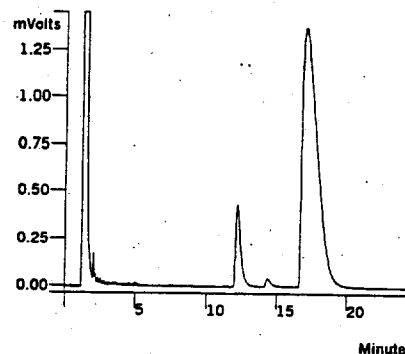
GC Conditions: Column: Chiraldex GTA (Cat. No. 73033), Advanced Separation Technologies Inc.
Oven: 75 °C; Carrier: Helium, head pressure 25 psi; Detection: FID 250 °C

Racemate



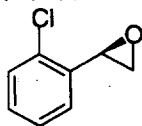
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		49.9944	11.861	0.000	71450
2		50.0056	17.144	0.000	71456
Totals		100.0000		0.000	142916

Chiral epoxide



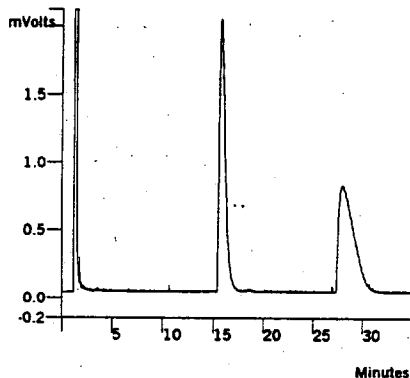
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		9.5117	12.132	0.000	10520
2		90.4883	16.949	0.000	100078
Totals		100.0000		0.000	110598

(R)-(-)-2-Chlorostyrene oxide (Table 1, entry 4)



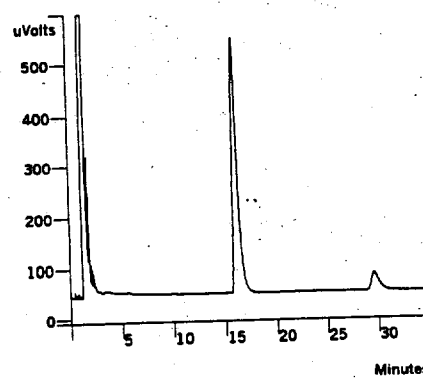
GC Conditions: Column: Chiraldex GTA (Cat. No. 73033), Advanced Separation Technologies Inc.
Oven: 85 °C; Carrier: Helium, head pressure 25 psi; Detection: FID 250 °C

Racemate



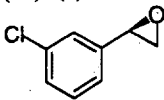
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		50.0803	15.667	0.000	83793
2		49.9197	27.926	0.000	83524
Totals		100.0000		0.000	167317

Chiral epoxide



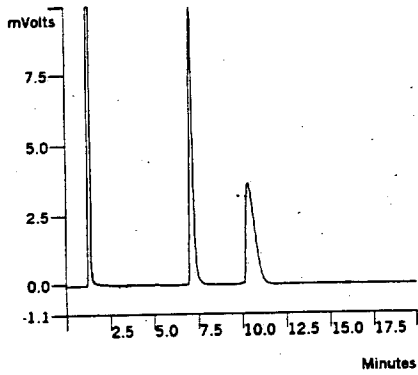
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		90.5170	15.996	0.000	16548
2		9.4830	29.511	0.000	1734
Totals		100.0000		0.000	18282

(R)-(-)-3-Chlorostyrene oxide (Table 1, entry 5)

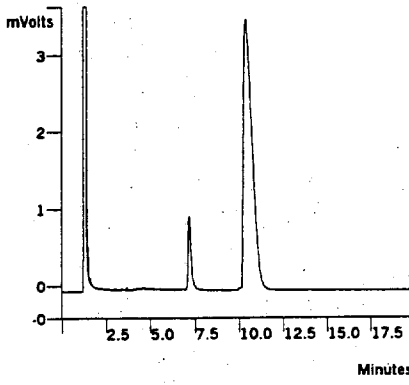


GC Conditions: Column: Chiraldex GTA (Cat. No. 73033), Advanced Separation Technologies Inc.
Oven: 110 °C; Carrier: Helium, head pressure 25 psi; Detection: FID 250 °C

Racemate

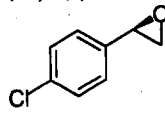


Chiral epoxide



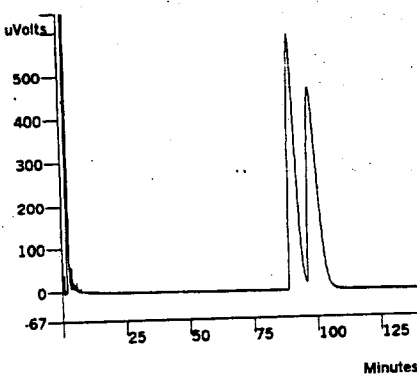
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)	Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		50.0916	7.066	0.000	130399	1		8.4072	7.133	0.000	11148
2		49.9084	10.109	0.000	129922	2		91.5928	10.354	0.000	121450
Totals		100.0000		0.000	260321	Totals		100.0000		0.000	132598

(R)-(-)-4-Chlorostyrene oxide (Table 1, entry 6)

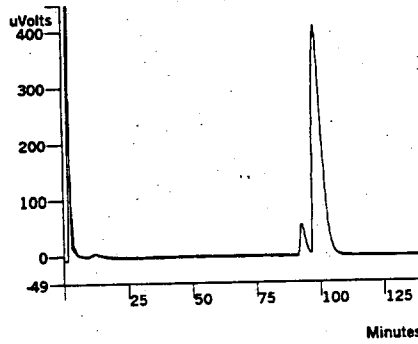


GC Conditions: Column: Chiraldex GTA (Cat. No. 73033), Advanced Separation Technologies Inc.
Oven: 65 °C; Carrier: Helium, head pressure 18 psi; Detection: FID 250 °C

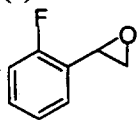
Racemate



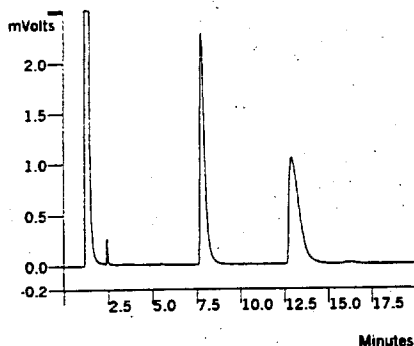
Chiral epoxide



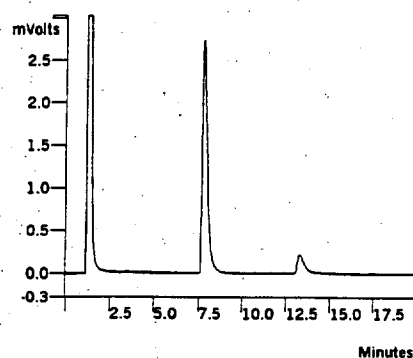
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)	Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		49.9745	89.866	0.000	120276	1		7.3440	92.686	0.000	8069
2		50.0255	97.607	0.000	120399	2		92.6560	98.084	0.000	101800
Totals		100.0000		0.000	240675	Totals		100.0000		0.000	109869

(-)-2-Fluorostyrene oxide (Table 1, Entry 7)

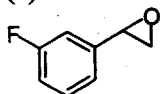
GC Conditions: Column: Chiraldex GTA (Cat. No. 73033), Advanced Separation Technologies Inc.
Oven: 80 °C; Carrier: Helium, head pressure 25 psi; Detection: FID 250 °C

Racemate

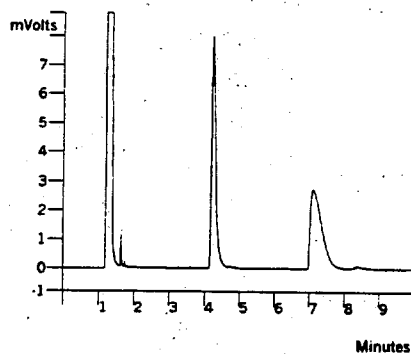
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		50.0373	7.729	0.000	42486
2		49.9627	12.889	0.000	42422
Totals		100.0000		0.000	84908

Chiral epoxide

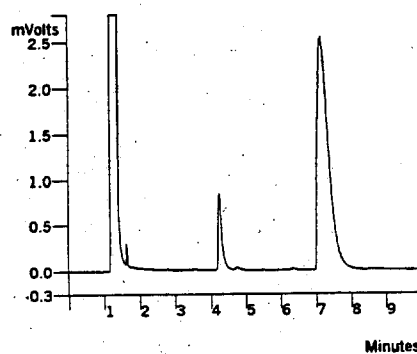
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		91.1128	7.716	0.000	54078
2		8.8872	13.276	0.000	5275
Totals		100.0000		0.000	59353

(-)-3-Fluorostyrene oxide (Table 1, Entry 8)

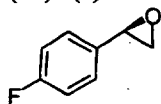
GC Conditions: Column: Chiraldex GTA (Cat. No. 73033), Advanced Separation Technologies Inc.
Oven: 100 °C; Carrier: Helium, head pressure 25 psi; Detection: FID 250 °C

Racemate

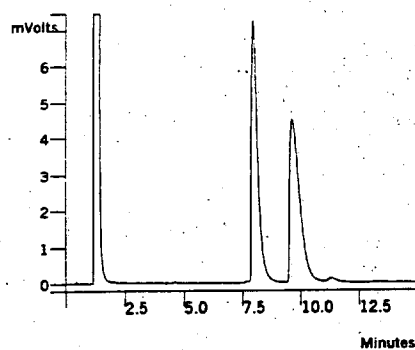
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		49.9900	4.194	0.000	64138
2		50.0100	7.082	0.000	64163
Totals		100.0000		0.000	128301

Chiral epoxide

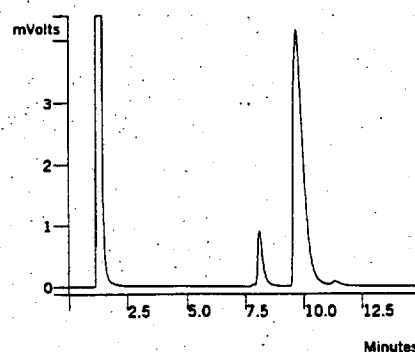
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		9.3982	4.238	0.000	5798
2		90.6018	7.122	0.000	55898
Totals		100.0000		0.000	61696

(R)-(-)-4-Fluorostyrene oxide (Table 1, Entry 9)**GC Conditions:** Column: Chiraldex GTA (Cat. No. 73033), Advanced Separation Technologies Inc.

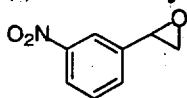
Oven: 80 °C; Carrier: Helium, head pressure 25 psi; Detection: FID 250 °C

Racemate

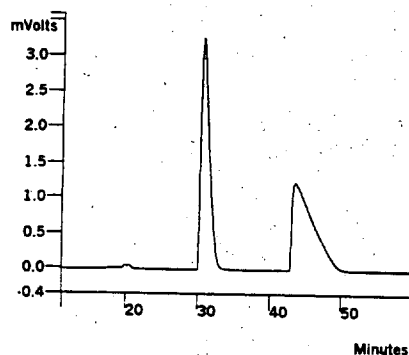
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		49.9753	7.936	0.000	134968
2		50.0247	9.609	0.000	135102
Totals		100.0000		0.000	270070

Chiral epoxide

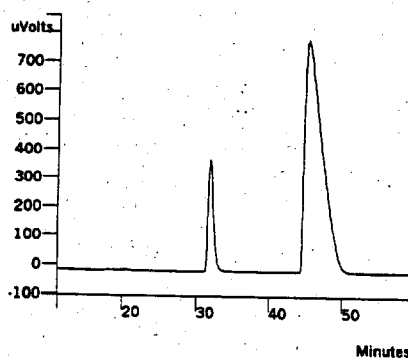
Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		9.4837	8.071	0.000	12707
2		90.5163	9.651	0.000	121284
Totals		100.0000		0.000	133991

(-)-3-Nitrostyrene oxide (Table 1, entry 10)**GC Conditions:** Column: Chiraldex GTA (Cat. No. 73033), Advanced Separation Technologies Inc.

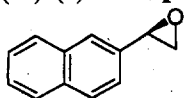
Oven: 120 °C; Carrier: Helium, head pressure 25 psi; Detection: FID 250 °C

Racemate

Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		50.0852	30.449	0.000	257191
2		49.9148	43.381	0.000	256316
Totals		100.0000		0.000	513507

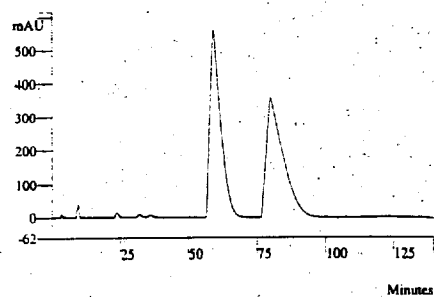
Chiral epoxide

Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		12.9358	31.774	0.000	19521
2		87.0642	45.029	0.000	131387
Totals		100.0000		0.000	150908

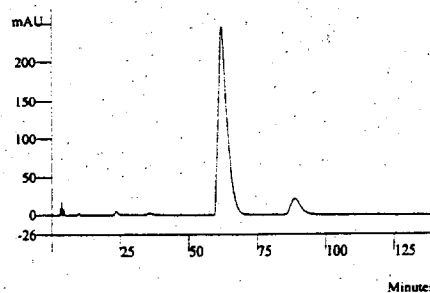
(R)-(-)-2-Naphthyloxirane (Table 1, entry 11)

HPLC Conditions: Column: Chiralcel OJ (Column No. AD00CE-IC048), Chiral Technologies Inc.

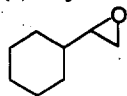
Eluent: Hexane/IPA (100/0); Flow Rate: 1.0 mL/min; Detection: UV210

Racemate

Peak No	Peak Name	Ret Time (min)	Result ()	Time Offset (min)	Peak Area (counts)
1		59.022	49.9462	0.000	78416256
2		80.026	50.0538	0.000	78585288
Totals			100.0000	0.000	157001536

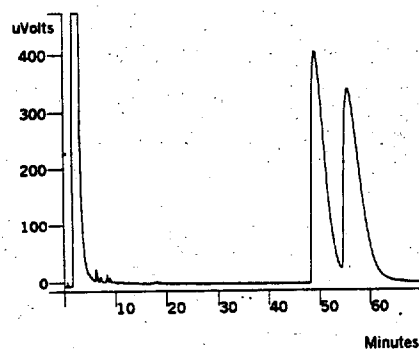
Chiral epoxide

Peak No	Peak Name	Ret Time (min)	Result ()	Time Offset (min)	Peak Area (counts)
1		61.893	92.1390	0.000	29126154
2		88.696	7.8610	0.000	2484944
Totals			100.0000	0.000	31611098

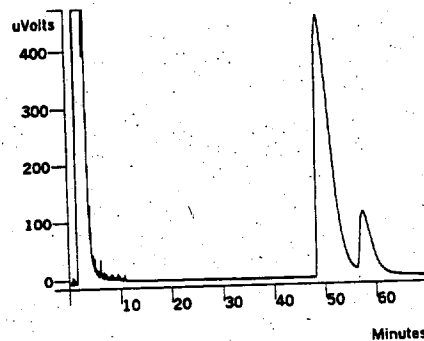
(-)-Cyclohexyloxirane (Table 1, entry 12)

GC Conditions: Column: Chiraldex GTA (Cat. No. 73033), Advanced Separation Technologies Inc.

Oven: 45 °C; Carrier: Helium, head pressure 17 psi; Detection: FID 250 °C

Racemate

Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		49.8074	49.001	0.000	73415
2		50.1926	55.423	0.000	73982
Totals		100.0000		0.000	147397

Chiral epoxide

Peak No	Peak Name	Result ()	Ret. Time (min)	Time Offset (min)	Area (counts)
1		85.3262	49.011	0.000	90912
2		14.6738	57.481	0.000	15634
Totals		100.0000		0.000	106546