

Supporting Information-II

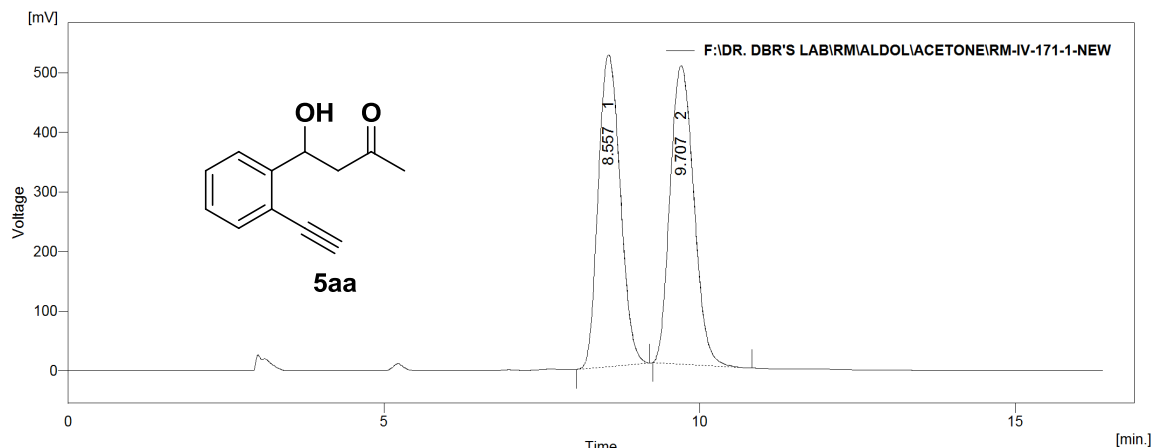
Direct Catalytic Asymmetric Synthesis of Highly Functionalized (2-Ethynylphenyl)alcohols *via* Barbas- List Aldol Reaction: Scope and Synthetic Applications

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RECEMIC 5aa:

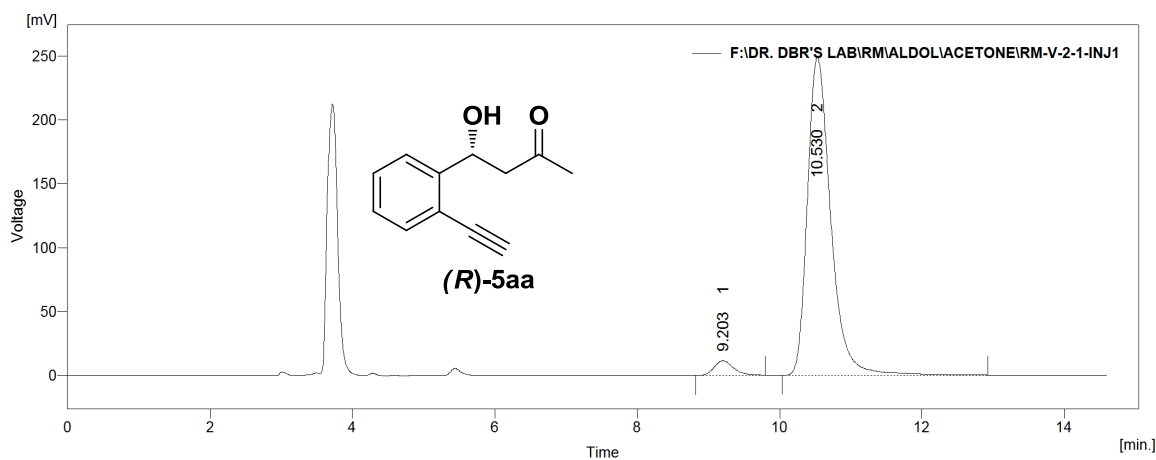


Daicel ChiralCel OD-H, Hexane/ *i*-PrOH = 92:08, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\ACETONE\RM-IV-171-1-NEW)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	8.557	8451.990	348.639	49.2	51.1	0.39
2	9.707	8728.188	333.299	50.8	48.9	0.42
	Total	17180.178	681.939	100.0	100.0	

CHIRAL (*R*)-5aa (93% *ee*):

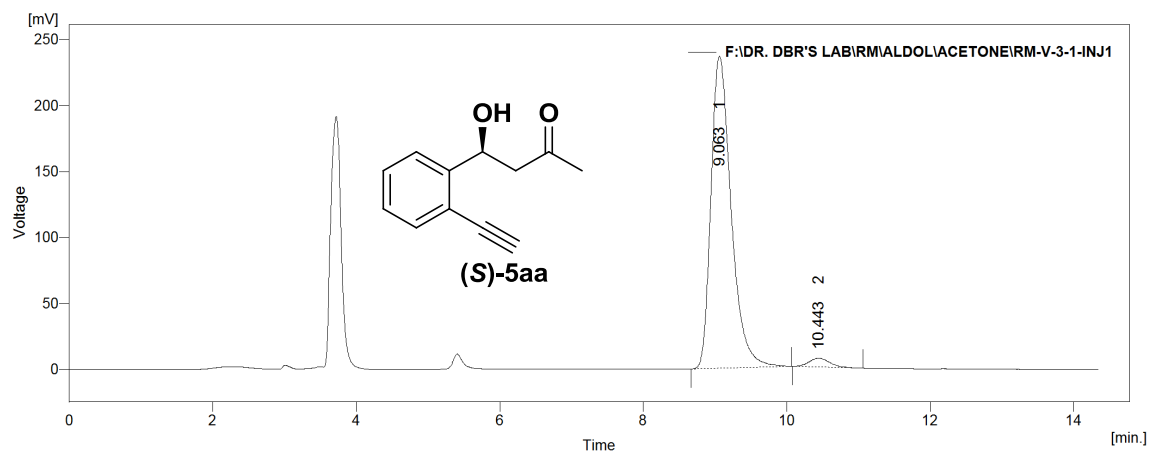


Daicel ChiralCel OD-H, Hexane/ *i*-PrOH = 92:08, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\ACETONE\RM-V-2-1-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	9.203	142.355	7.635	3.6	4.4	0.29
2	10.530	3770.719	165.727	96.4	95.6	0.34
	Total	3913.074	173.362	100.0	100.0	

CHIRAL (S)-5aa (95% ee):

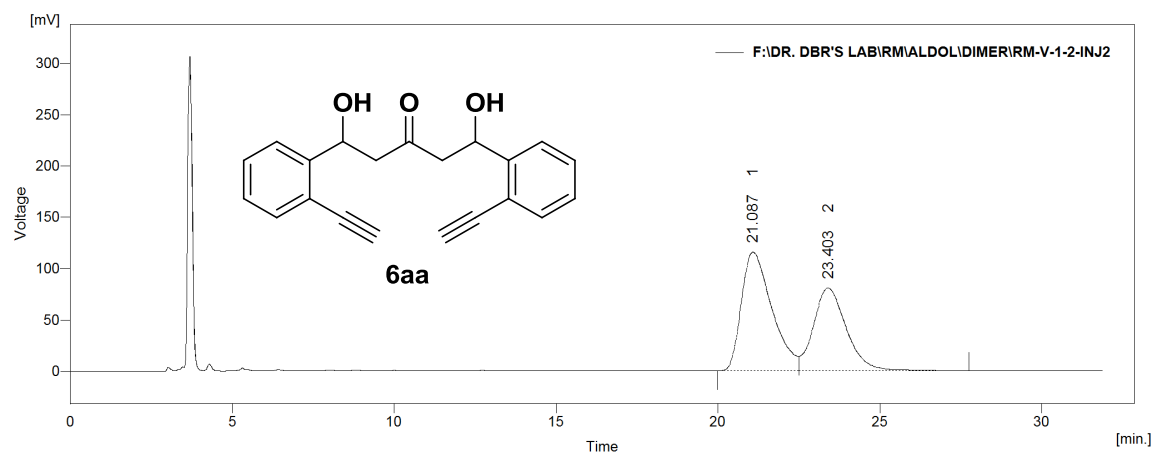


Daicel ChiralCel OD-H, Hexane/ *i*-PrOH = 92:08, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\ACETONE\RM-V-3-1-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	9.063	3074.093	157.559	97.2	97.2	0.29
2	10.443	89.041	4.475	2.8	2.8	0.31
	Total	3163.134	162.035	100.0	100.0	

RECEMIC 6aa:

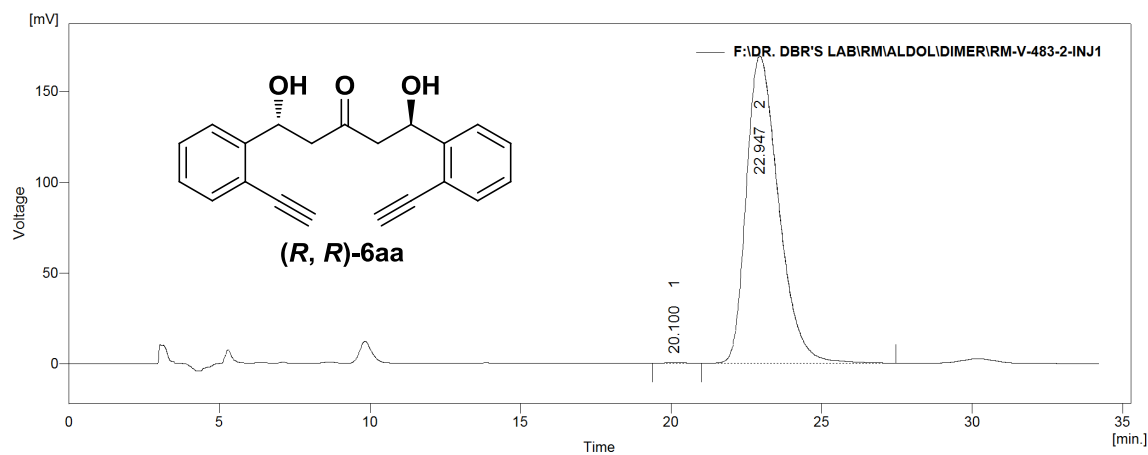


Daicel ChiralCel OD-H, Hexane/ *i*-PrOH = 92:08, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\DIMER\RM-V-1-2-INJ2)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	21.087	5042.442	77.067	57.0	58.8	1.01
2	23.403	3800.570	53.896	43.0	41.2	1.06
	Total	8843.013	130.963	100.0	100.0	

CHIRAL (*R,R*)-6aa (>99% *ee*):

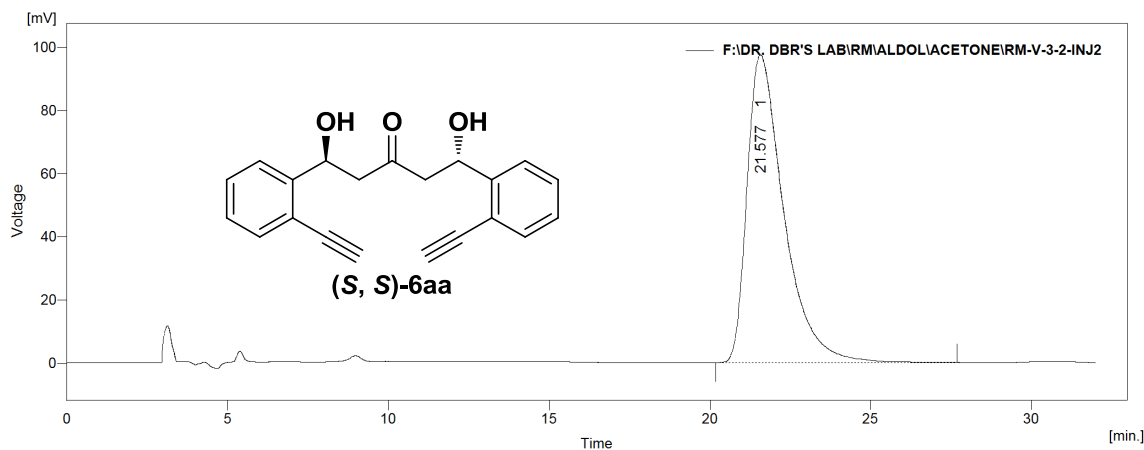


Daicel ChiralCel OD-H, Hexane/ *i*-PrOH = 92:08, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\DIMER\RM-V-483-2-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	20.100	19.031	0.342	0.2	0.3	0.92
2	22.947	8406.664	112.688	99.8	99.7	1.14
	Total	8425.695	113.030	100.0	100.0	

CHIRAL (S, S)-6aa (>99.9% ee):

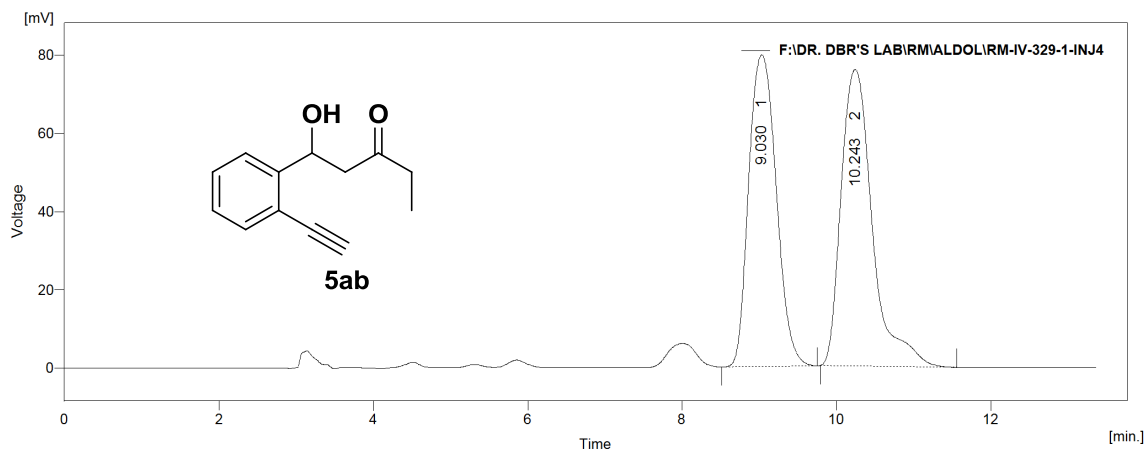


Daicel ChiralCel OD-H, Hexane/ *i*-PrOH = 92:08, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\ACETONE\RM-V-3-2-INJ2)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	21.577	5176.532	65.022	100.0	100.0	1.17
	Total	5176.532	65.022	100.0	100.0	

RECEMIC 5ab:

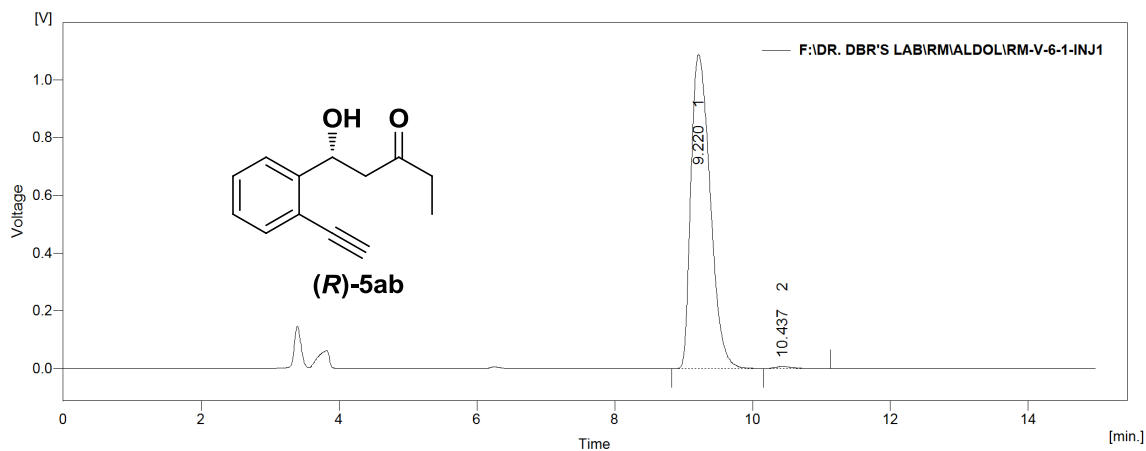


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\RM-IV-329-1-INJ4)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	9.030	1318.427	53.167	48.1	51.3	0.40
2	10.243	1423.519	50.571	51.9	48.7	0.42
	Total	2741.946	103.738	100.0	100.0	

CHIRAL (R)-5ab (99% ee):

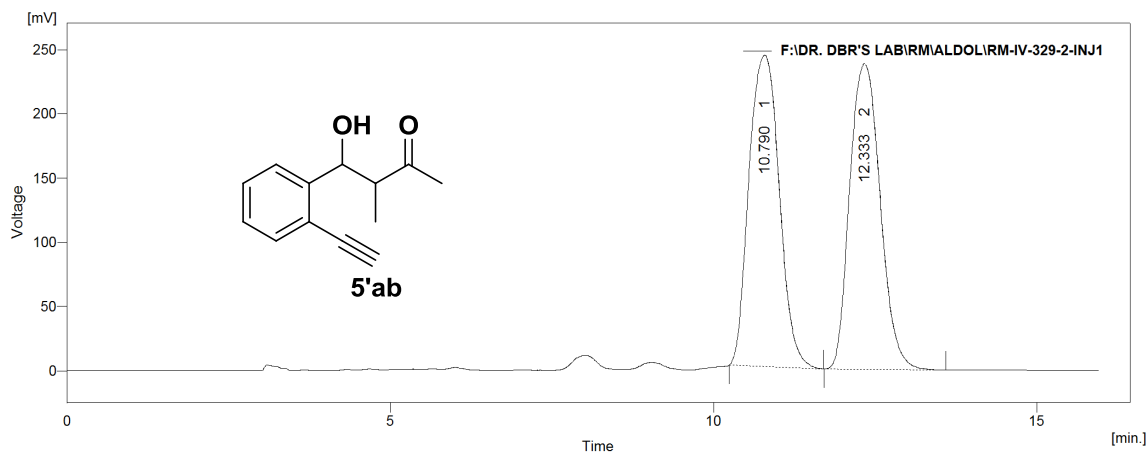


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RM\ALDOL\RM-V-6-1-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	9.220	14052.079	724.335	99.3	99.2	0.31
2	10.437	93.655	5.608	0.7	0.8	0.25
	Total	14145.734	729.942	100.0	100.0	

RECEMIC *anti*-5'ab:

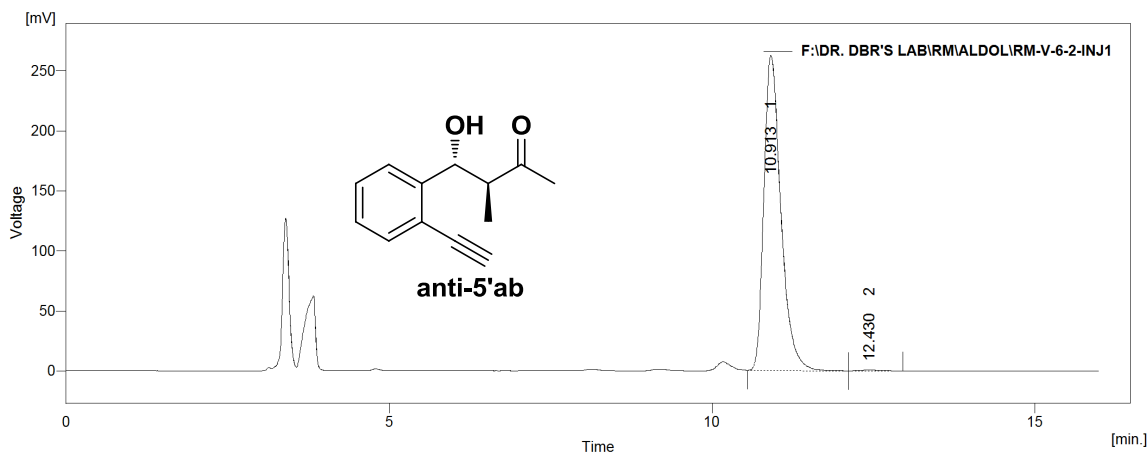


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RM\ALDOL\RM-IV-329-2-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	10.790	5267.826	161.730	50.3	50.5	0.53
2	12.333	5207.322	158.722	49.7	49.5	0.53
	Total	10475.148	320.452	100.0	100.0	

CHIRAL *anti*-5'ab (>99% ee):

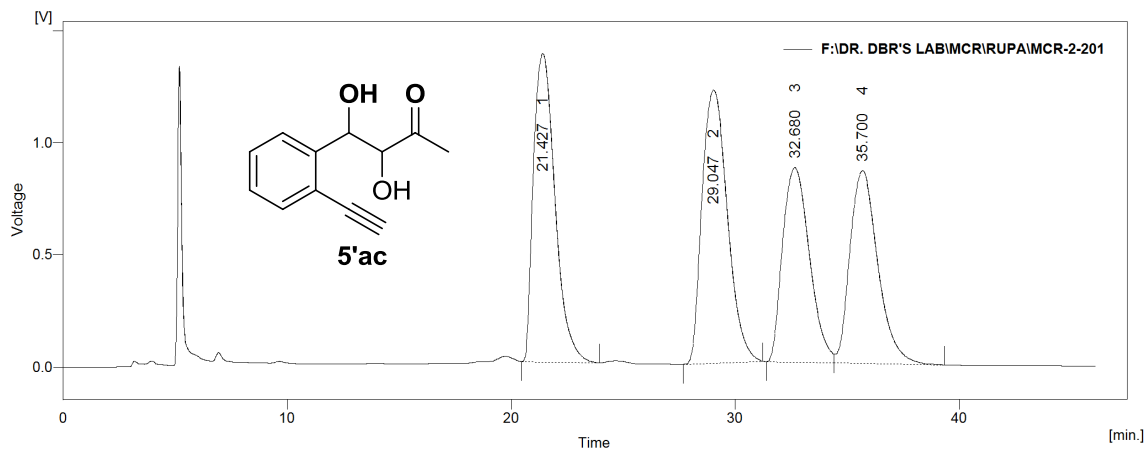


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\RM-V-6-2-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	10.913	3201.534	175.143	99.8	99.8	0.28
2	12.430	6.767	0.359	0.2	0.2	0.29
	Total	3208.301	175.502	100.0	100.0	

RECEMIC *anti*-5'ac and *syn*-5'ac:

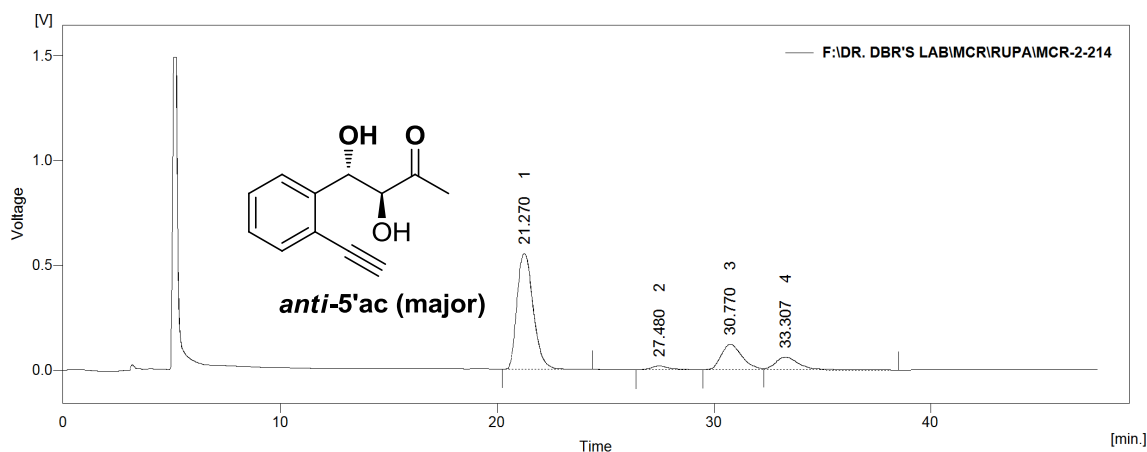


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\MCR\IRUPA\MCR-2-201)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	21.427	60903.123	916.293	27.3	31.8	1.05
2	29.047	64174.346	811.275	28.8	28.2	1.27
3	32.680	47869.193	577.573	21.5	20.1	1.32
4	35.700	49981.867	572.877	22.4	19.9	1.34
	Total	222928.529	2878.018	100.0	100.0	

CHIRAL *anti*-5'ac (93% *ee*) and CHIRAL *syn*-5'ac (26% *ee*):

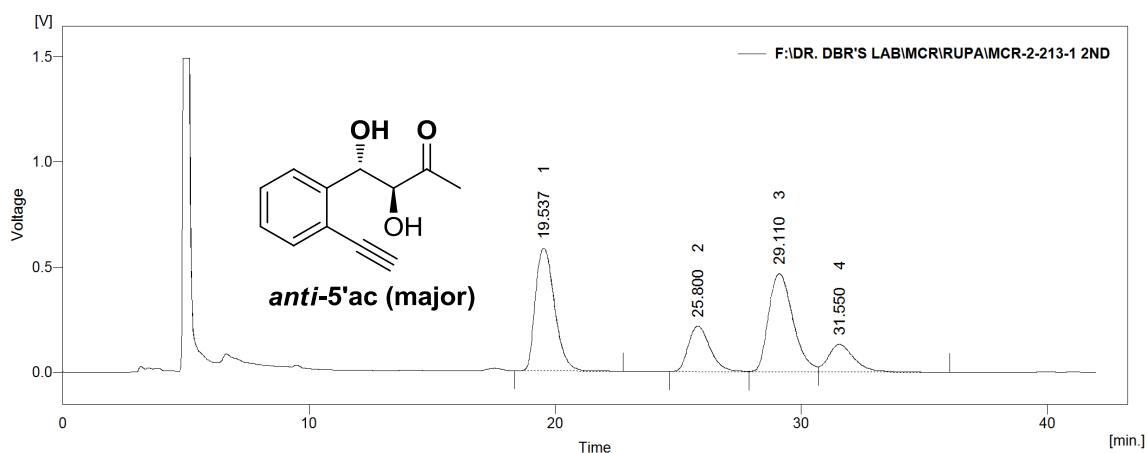


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\MCR\RUPA\MCR-2-214)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	21.270	19143.780	368.852	67.2	73.6	0.82
2	27.480	671.061	11.161	2.4	2.2	0.89
3	30.770	5456.032	80.313	19.2	16.0	1.05
4	33.307	3198.857	40.622	11.2	8.1	1.12
	Total	28469.730	500.948	100.0	100.0	

CHIRAL *anti*-5'ac (41% *ee*) and CHIRAL *syn*-5'ac (53% *ee*):

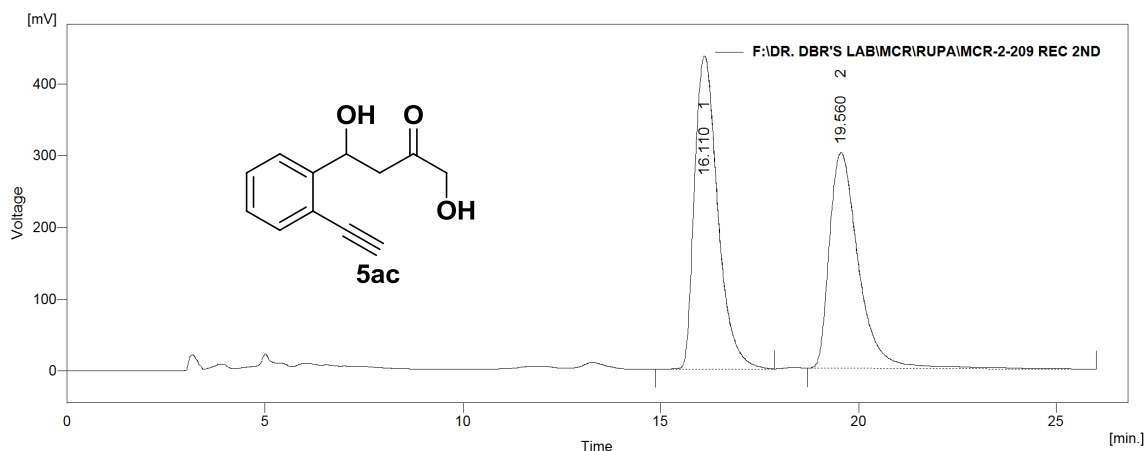


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\MCR\RUPA\MCR-2-213-1 2ND)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	19.537	21057.594	388.302	36.4	41.7	0.85
2	25.800	8816.556	144.566	15.2	15.5	0.94
3	29.110	21488.880	310.929	37.1	33.4	1.08
4	31.550	6507.478	87.728	11.2	9.4	1.09
	Total	57870.510	931.525	100.0	100.0	

RECEMIC 5ac:

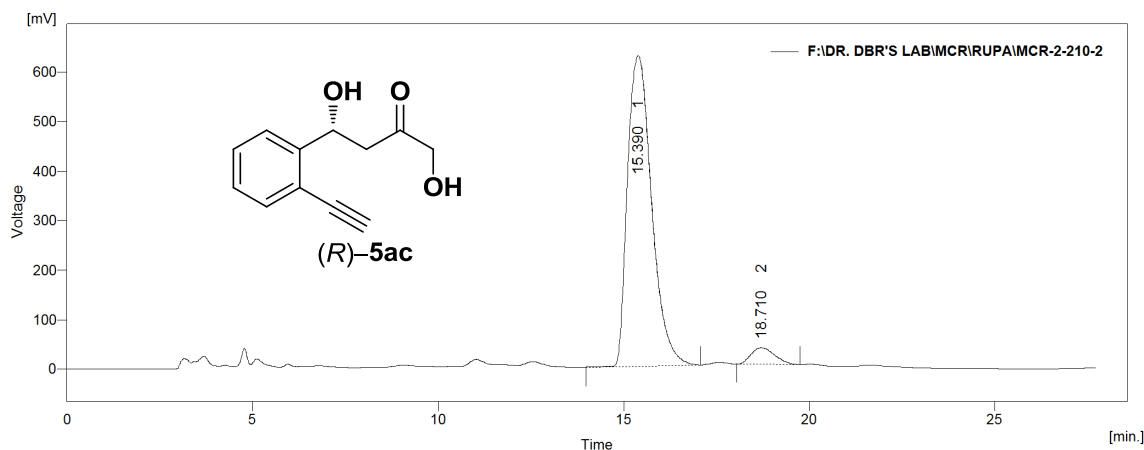


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\MCR\RUPA\MCR-2-209 REC 2ND)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	16.110	11871.216	290.811	53.5	59.2	0.63
2	19.560	10309.834	200.388	46.5	40.8	0.76
	Total	22181.050	491.199	100.0	100.0	

CHIRAL (*R*)-5ac (90% *ee*):

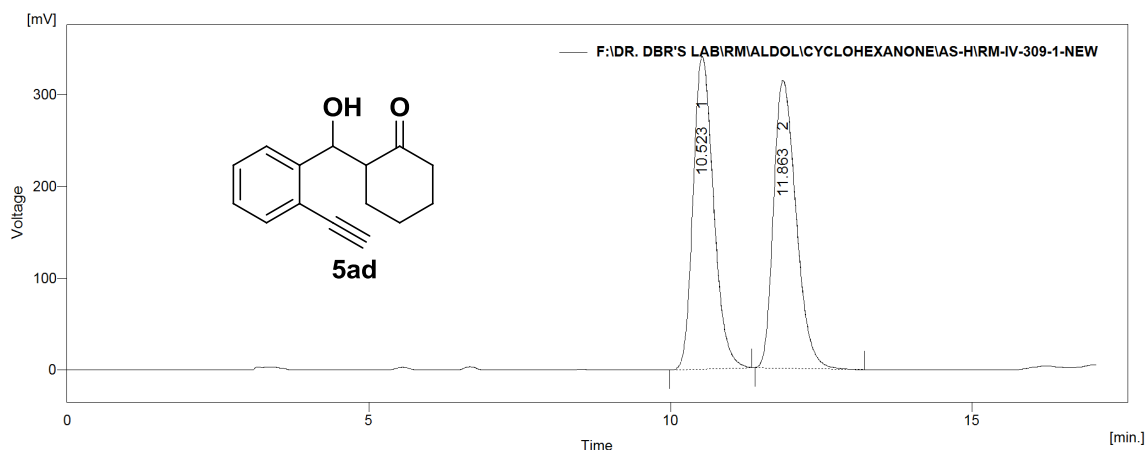


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\MCR\RUPA\MCR-2-210-2)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	15.390	18890.969	418.203	95.1	94.9	0.71
2	18.710	979.477	22.251	4.9	5.1	0.71
	Total	19870.446	440.454	100.0	100.0	

RECEMIC *syn*-5ad:

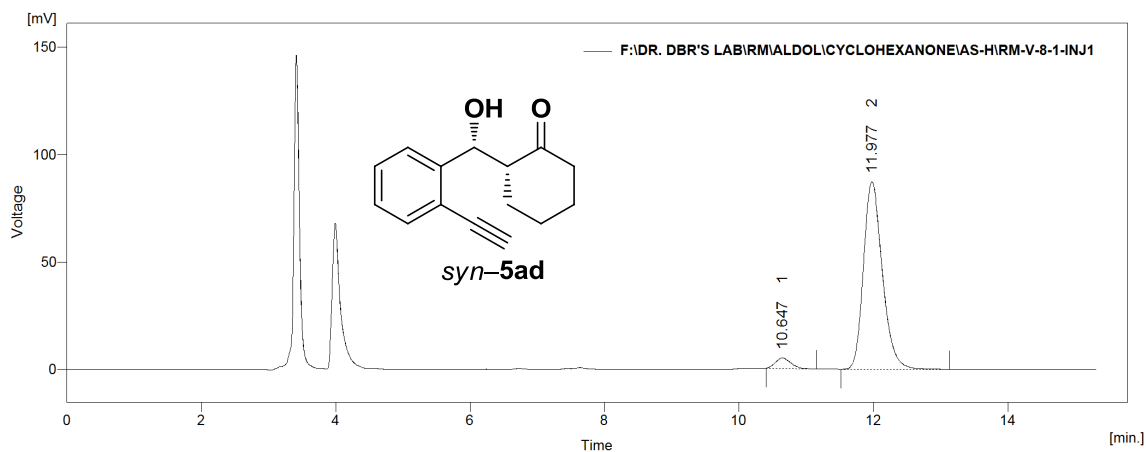


Daicel ChiralPak AS-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\CYCLOHEXANONE\AS-H\RM-IV-309-1-NEW)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	10.523	5353.487	227.219	49.7	52.1	0.36
2	11.863	5417.023	209.078	50.3	47.9	0.40
	Total	10770.510	436.297	100.0	100.0	

CHIRAL *syn*-5ad (91% ee):

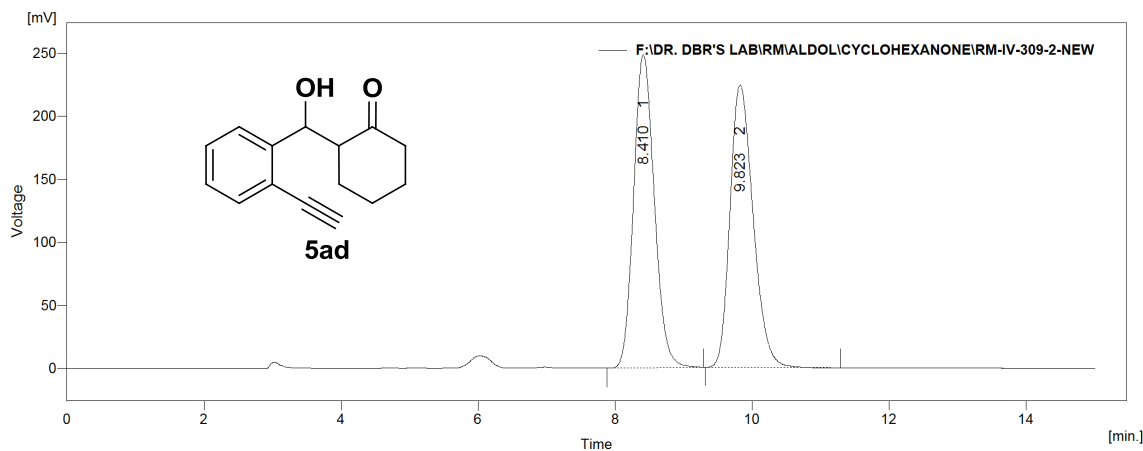


Daicel ChiralPak AS-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\CYCLOHEXANONE\AS-H\RM-V-8-1-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	10.647	52.121	3.234	4.3	5.3	0.25
2	11.977	1146.797	58.234	95.7	94.7	0.30
	Total	1198.918	61.469	100.0	100.0	

RECEMIC anti-5ad:

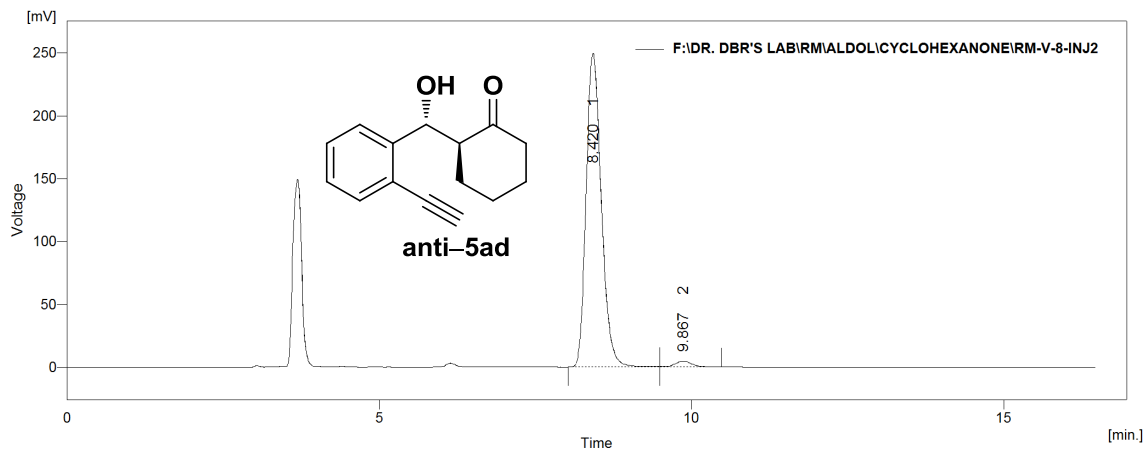


Daicel ChiralCel OD-H, Hexane/ *i*-PrOH = 92:08, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\CYCLOHEXANONE\RM-IV-309-2-NEW)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	8.410	3470.302	165.576	49.8	52.6	0.33
2	9.823	3495.370	149.179	50.2	47.4	0.37
	Total	6965.672	314.755	100.0	100.0	

CHIRAL anti-5ad (96% ee):

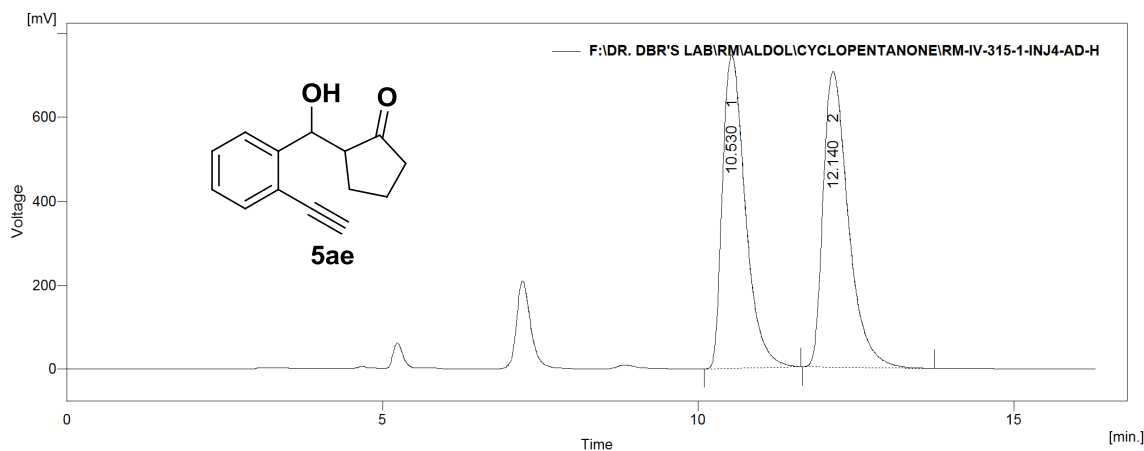


Daicel ChiralCel OD-H, Hexane/ *i*-PrOH = 92:08, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\CYCLOHEXANONE\RM-V-8-INJ2)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	8.420	2810.417	166.300	98.1	98.2	0.26
2	9.867	55.682	3.021	1.9	1.8	0.29
	Total	2866.099	169.321	100.0	100.0	

RECEMIC *anti*-5ae:

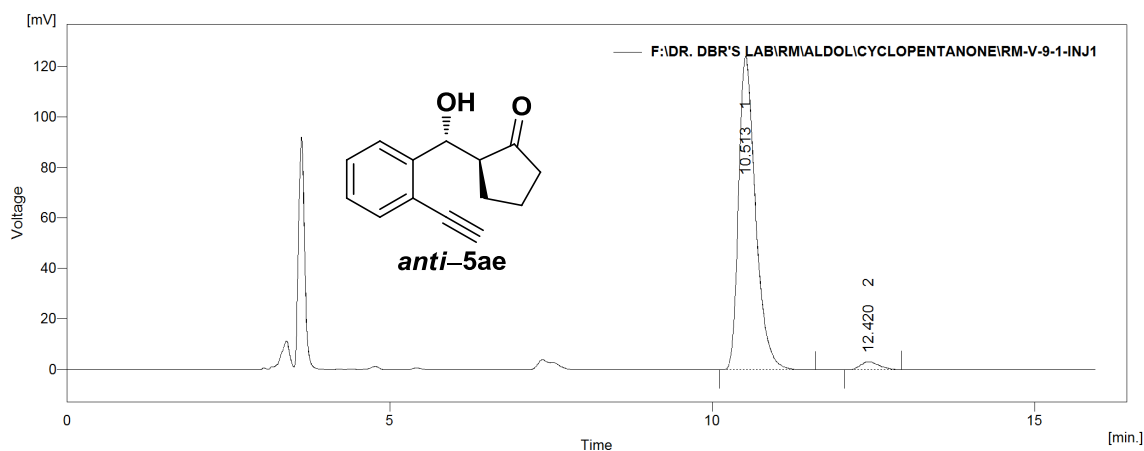


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\CYCLOPENTANONE\RM-IV-315-1-INJ4-AD-H)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	10.530	12540.466	497.590	49.1	51.4	0.39
2	12.140	13016.844	469.819	50.9	48.6	0.42
	Total	25557.310	967.409	100.0	100.0	

CHIRAL *anti*-5ae (95% ee):

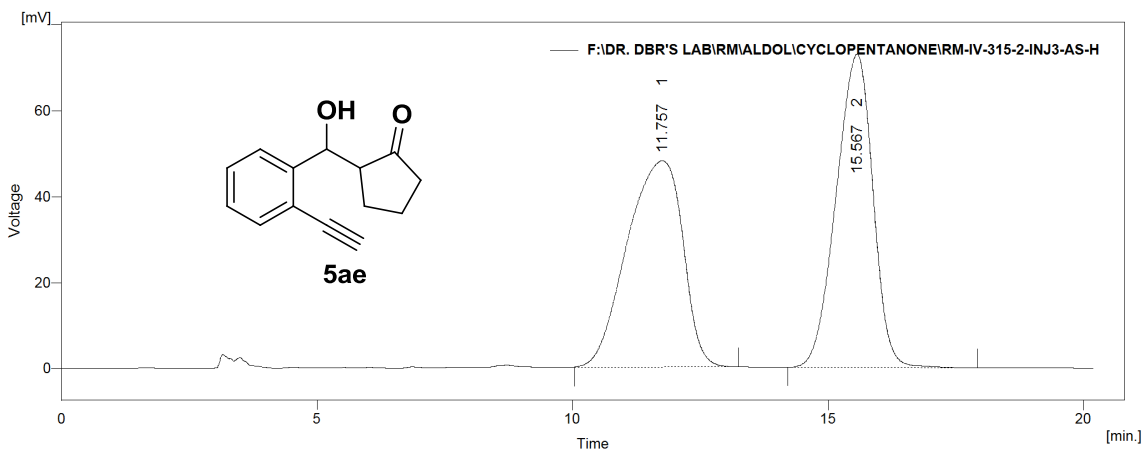


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\CYCLOPENTANONE\RM-V-9-1-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	10.513	1506.214	82.703	97.3	97.5	0.28
2	12.420	42.018	2.082	2.7	2.5	0.32
	Total	1548.232	84.785	100.0	100.0	

RECEMIC *syn*-5ae:

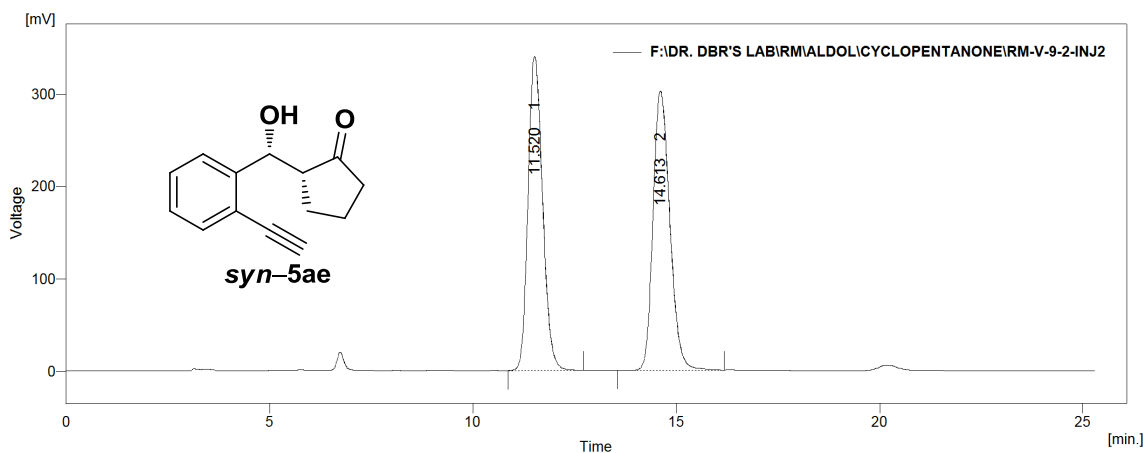


Daicel ChiralPak AS-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\CYCLOPENTANONE\RM-IV-315-2-INJ3-AS-H)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	11.757	2421.021	31.950	49.9	39.7	1.25
2	15.567	2429.692	48.588	50.1	60.3	0.79
	Total	4850.712	80.537	100.0	100.0	

CHIRAL *syn*-5ae (0% ee):

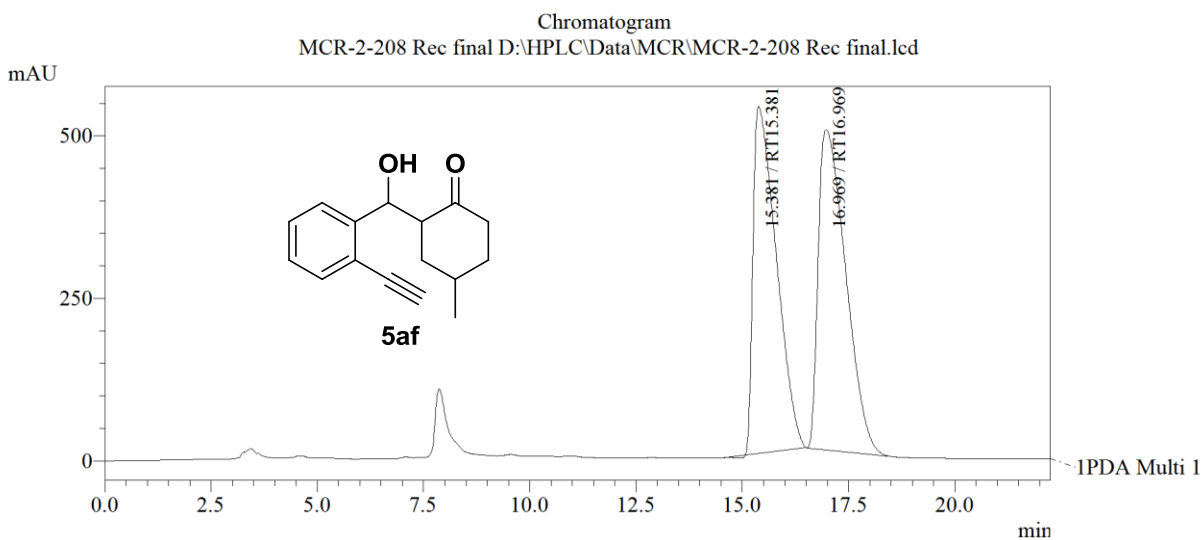


Daicel ChiralPak AS-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\CYCLOPENTANONE\RM-V-9-2-INJ2)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	11.520	5632.164	226.889	49.4	53.0	0.39
2	14.613	5780.151	201.605	50.6	47.0	0.45
	Total	11412.315	428.493	100.0	100.0	

RECEMIC 5af:

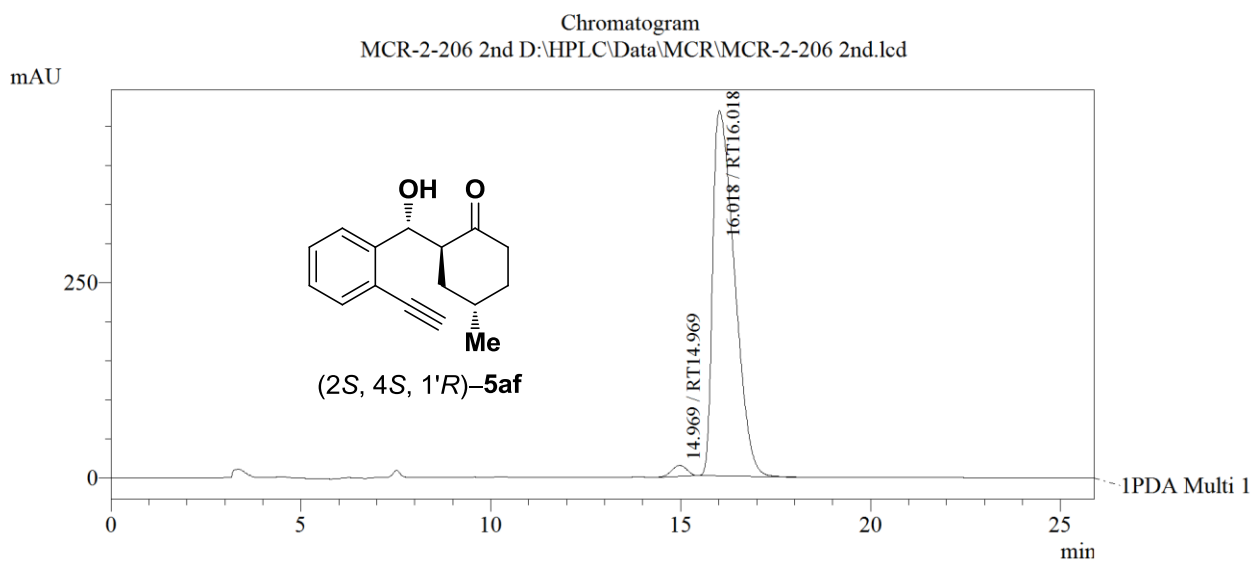


Daicel ChiralPak OJ-H, Hexane/ *i*-PrOH = 96:04, Flow Rate 1.0 mL/Min, 254 nm

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT15.381	15.381	20208124	533959	47.707	52.011
2	RT16.969	16.969	22150706	492675	52.293	47.989
Total			42358830	1026634	100.000	100.000

CHIRAL (2S, 4S, 1'R)-5af (96% ee):

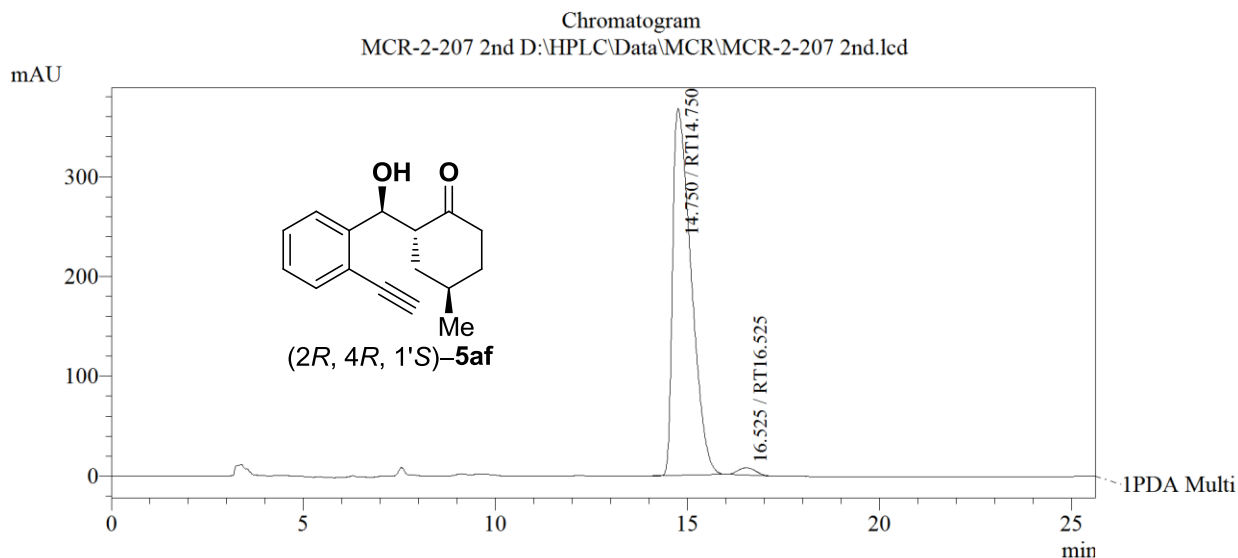


Daicel ChiralPak OJ-H, Hexane/ *i*-PrOH = 96:04, Flow Rate 1.0 mL/Min, 254 nm

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT14.969	14.969	391981	14077	2.060	2.921
2	RT16.018	16.018	18637458	467811	97.940	97.079
Total			19029439	481888	100.000	100.000

CHIRAL (2R, 4R, 1'S)-5af (96% ee):

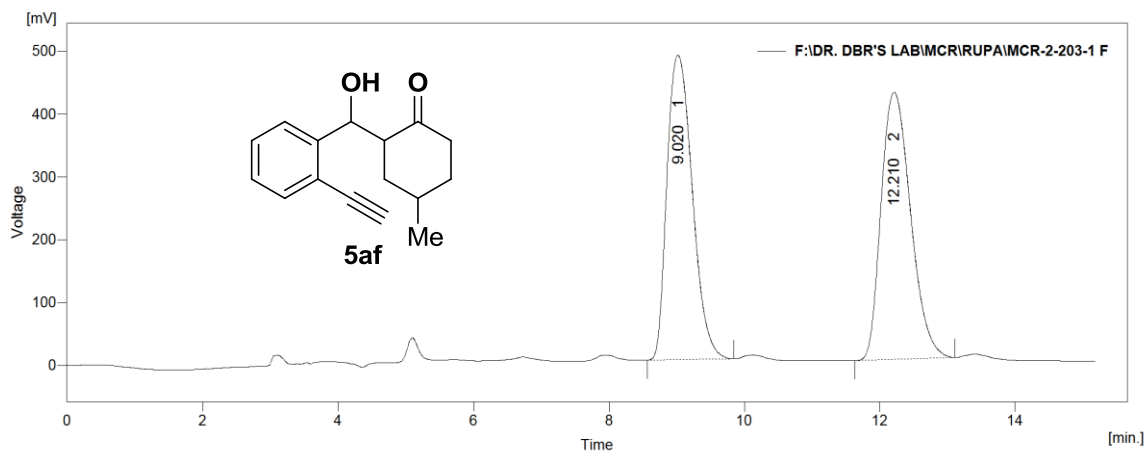


Daicel ChiralPak OJ-H, Hexane/ *i*-PrOH = 96:04, Flow Rate 1.0 mL/Min, 254 nm

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT14.750	14.750	12329093	367763	98.087	98.041
2	RT16.525	16.525	240426	7349	1.913	1.959
Total			12569519	375112	100.000	100.000

RECEMIC 5af:

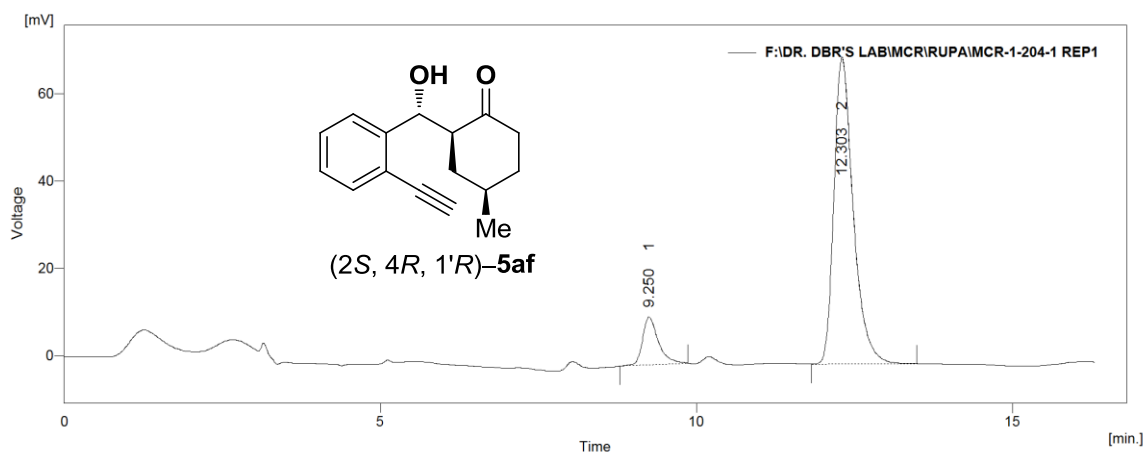


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\MCR\RUPA\MCR-2-203-1 F)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	9.020	8373.657	322.984	49.4	53.3	0.42
2	12.210	8560.940	283.244	50.6	46.7	0.48
Total		16934.597	606.228	100.0	100.0	

CHIRAL (2S, 4R, 1'R)-5af (77% ee):

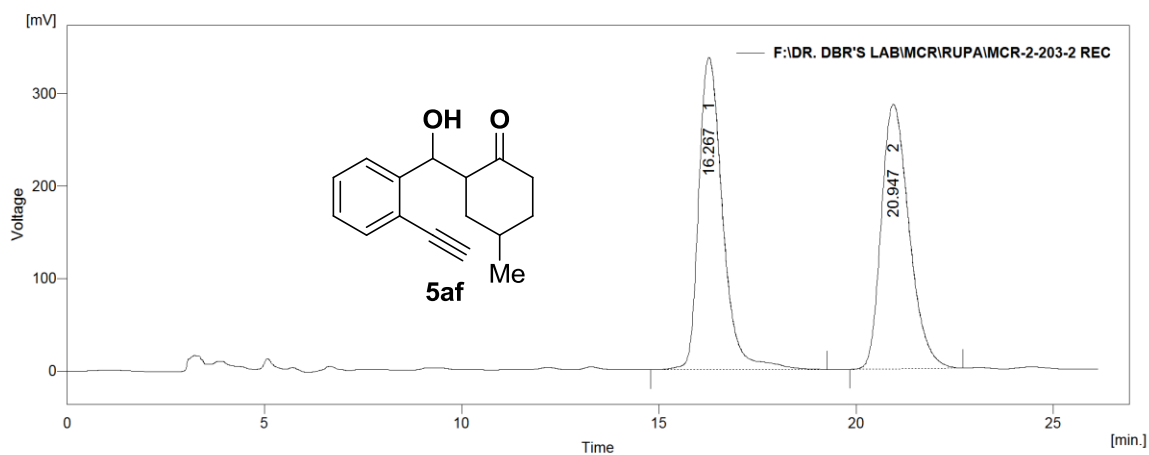


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\MCR\RUPA\MCR-1-204-1 REP1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	9.250	127.931	7.324	11.4	13.5	0.26
2	12.303	991.296	46.888	88.6	86.5	0.32
	Total	1119.227	54.211	100.0	100.0	

RECEMIC 5af:

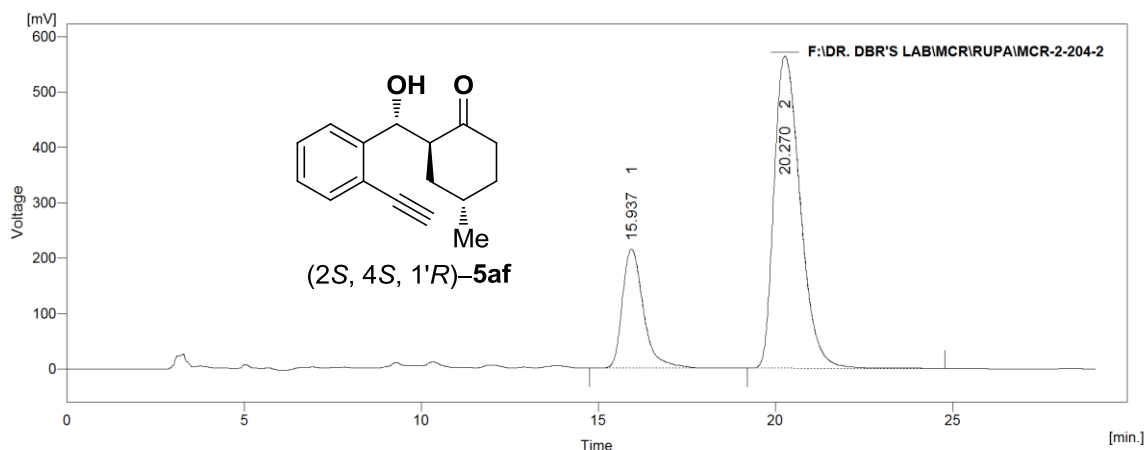


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\MCR\RUPA\MCR-2-203-2 REC)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	16.267	9474.661	225.240	50.3	54.1	0.63
2	20.947	9365.578	190.767	49.7	45.9	0.76
	Total	18840.238	416.007	100.0	100.0	

CHIRAL (2S, 4S, 1'R)-5af (53% ee):

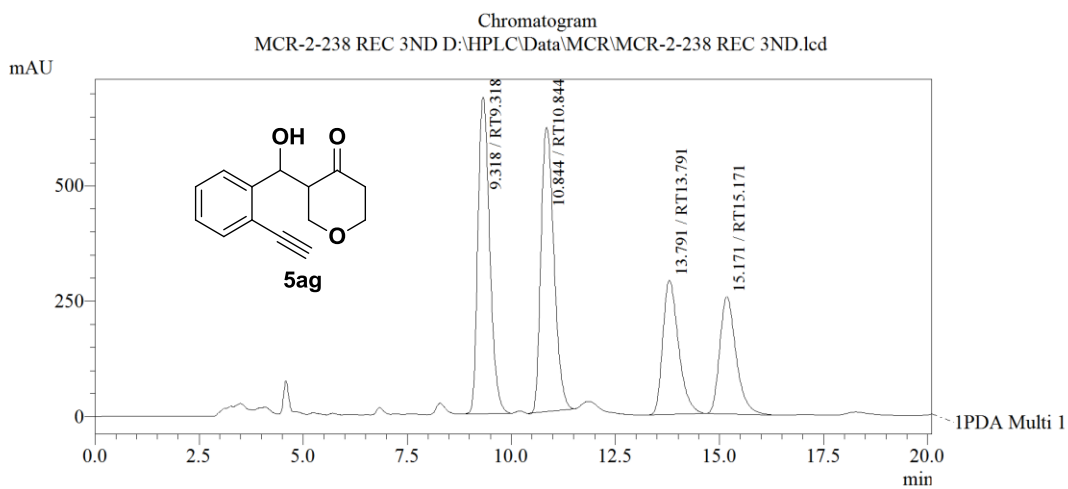


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\MCR\RUPA\MCR-2-204-2)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	15.937	5964.552	142.986	23.6	27.6	0.62
2	20.270	19314.569	375.596	76.4	72.4	0.80
	Total	25279.122	518.583	100.0	100.0	

RECEMIC *anti*-5ag and *syn*-5ag:



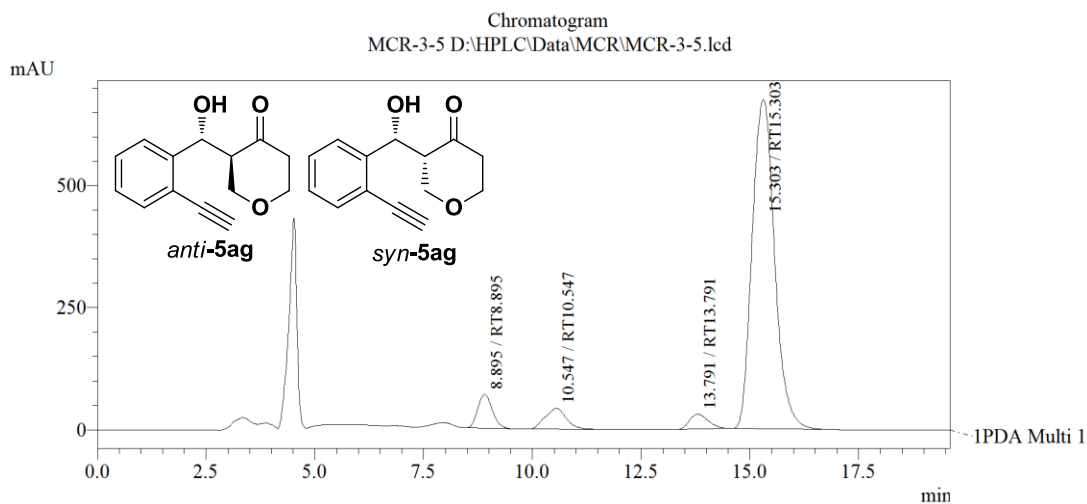
Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm

PeakTable

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT9.318	9.318	13499878	686777	32.645	37.125
2	RT10.844	10.844	13291311	617804	32.141	33.397
3	RT13.791	13.791	7618440	291062	18.423	15.734
4	RT15.171	15.171	6943376	254250	16.790	13.744
Total			41353006	1849892	100.000	100.000

CHIRAL *anti*-5ag (93% *ee*) and *syn*-5ag (6% *ee*) from 3h/4a-catalysis:

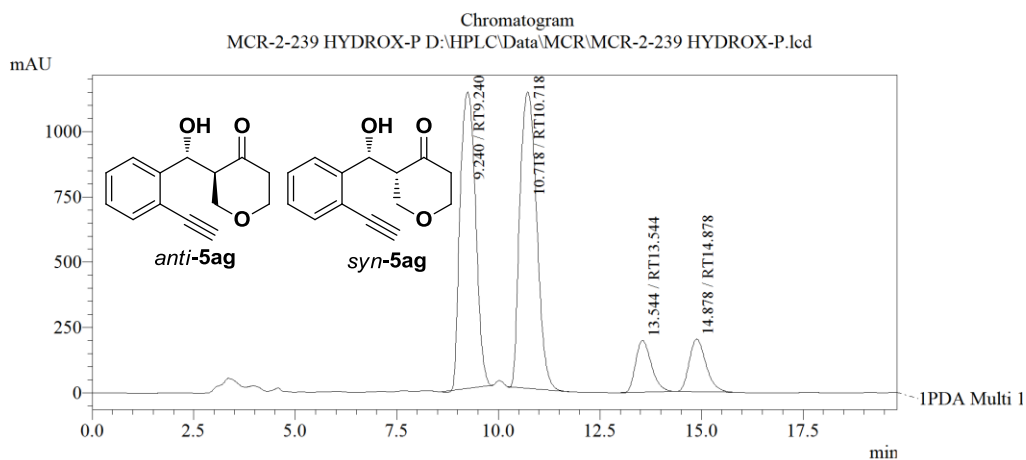


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT8.895	8.895	1610642	68938	5.730	8.438
2	RT10.547	10.547	1435009	42658	5.105	5.222
3	RT13.791	13.791	907103	30607	3.227	3.746
4	RT15.303	15.303	24157725	674766	85.939	82.594
Total			28110478	816970	100.000	100.000

CHIRAL *anti*-5ag (0% *ee*) and *syn*-5ag (0% *ee*) from 3d-catalysis:

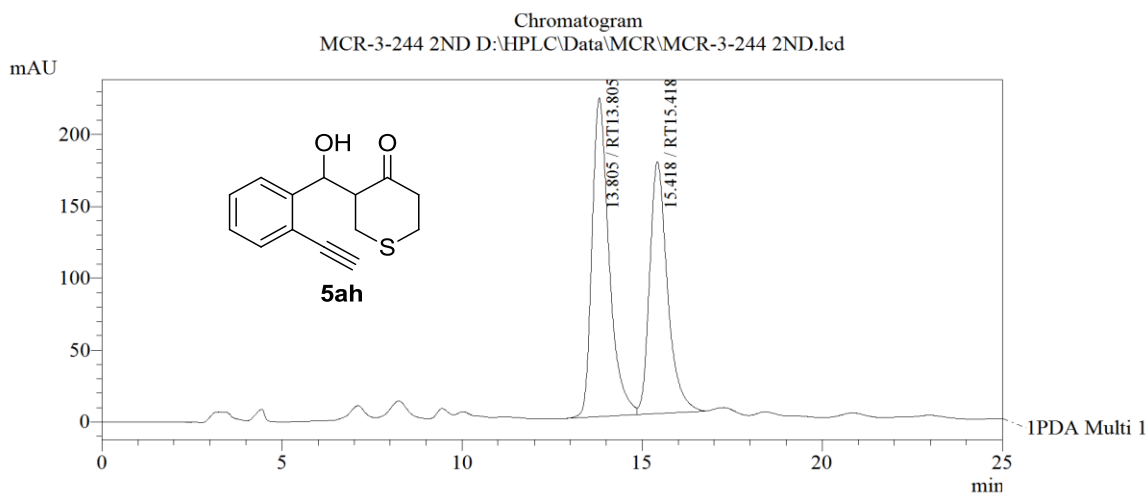


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT9.240	9.240	29947350	1134738	40.604	42.529
2	RT10.718	10.718	32692913	1133733	44.327	42.491
3	RT13.544	13.544	5310478	198050	7.200	7.423
4	RT14.878	14.878	5803110	201622	7.868	7.557
Total			73753851	2668143	100.000	100.000

RACAMIC 5ah:



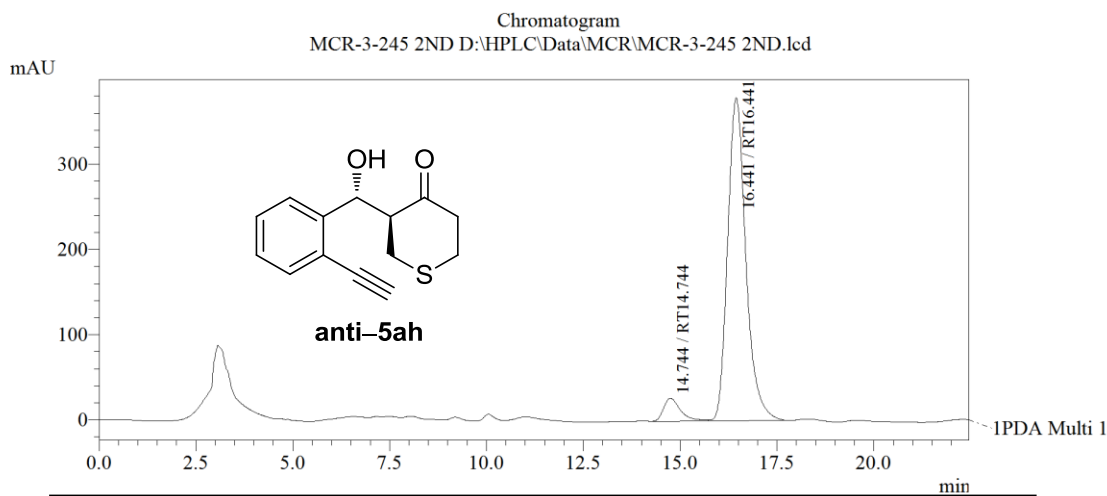
1 **Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254**

PeakTable

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT13.805	13.805	7371925	221815	54.880	55.835
2	RT15.418	15.418	6060876	175455	45.120	44.165
Total			13432802	397270	100.000	100.000

CHIRAL *anti*-5ah (88% *ee*):



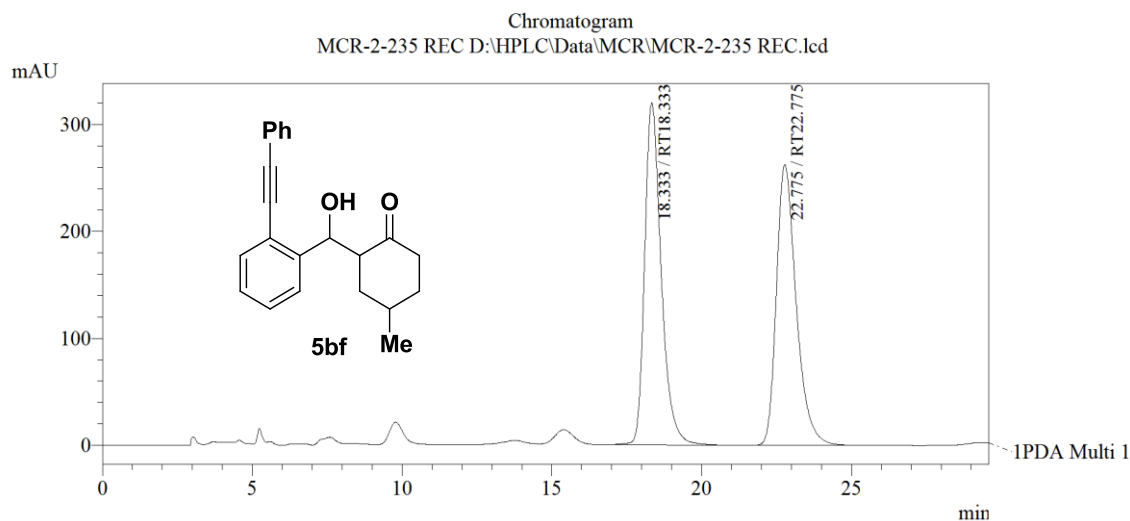
1 **Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 90:10, Flow Rate 1.0 mL/Min, 254 nm**

PeakTable

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT14.744	14.744	822973	26928	6.216	6.633
2	RT16.441	16.441	12416393	379031	93.784	93.367
Total			13239366	405958	100.000	100.000

RECEMIC 5bf:



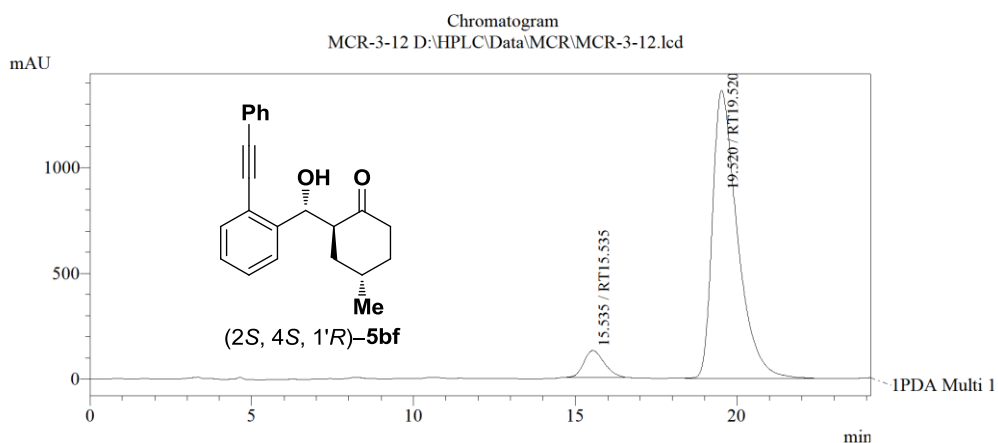
Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

PeakTable

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT18.333	18.333	12302014	319952	50.586	54.939
2	RT22.775	22.775	12016789	262426	49.414	45.061
Total			24318802	582378	100.000	100.000

CHIRAL (2S, 4S, 1'R)-5bf (86 % ee):

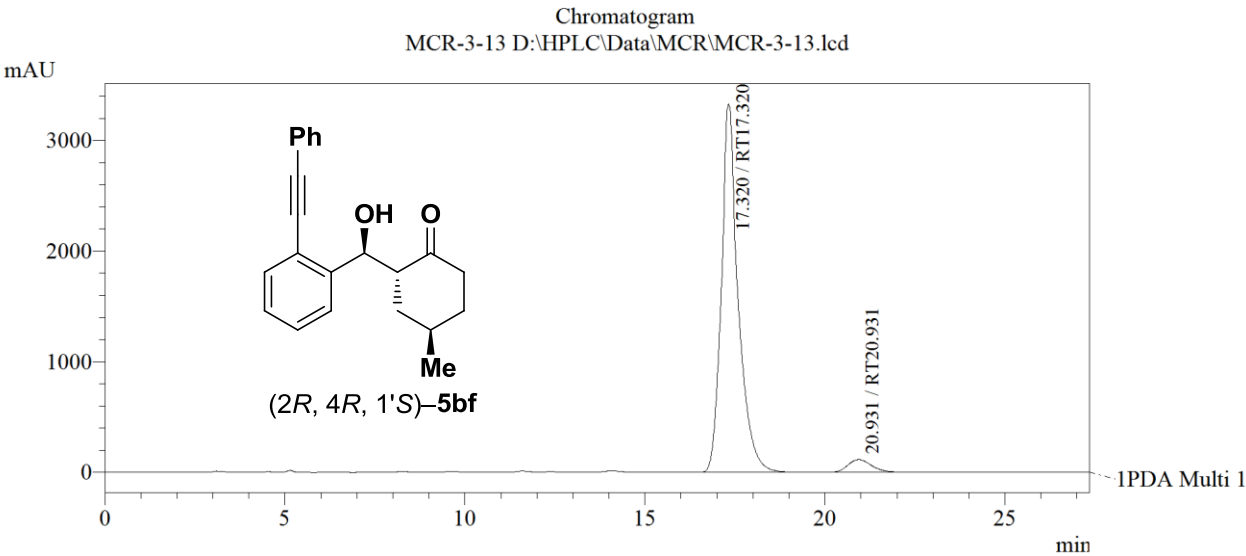


Daicel Chiral Pak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT15.535	15.535	5554553	126309	7.064	8.483
2	RT19.520	19.520	73076176	1362639	92.936	91.517
Total			78630730	1488948	100.000	100.000

CHIRAL (2*R*, 4*R*, 1'*S*)-5bf (90% *ee*):

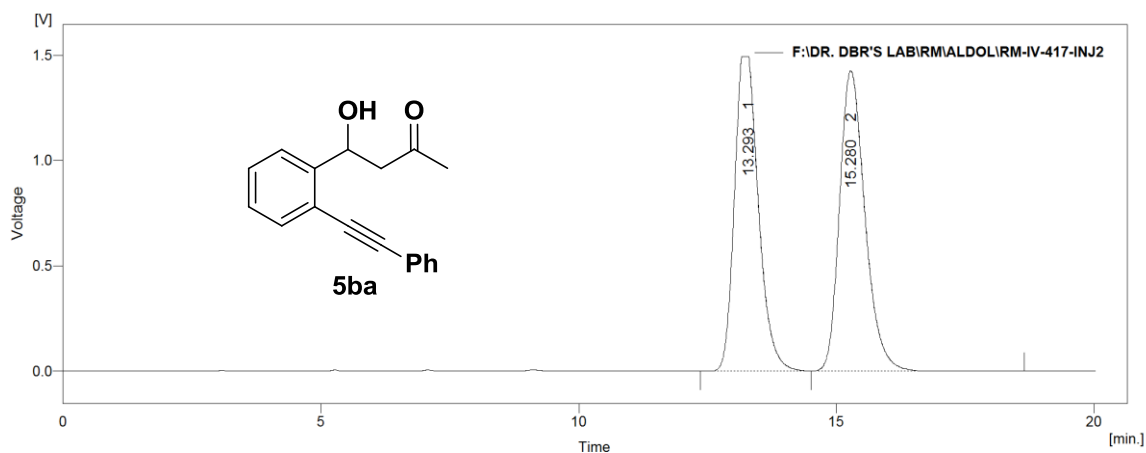


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

PDA Ch1 254nm 4nm

Peak#	Name	Ret. Time	Area	Height	Area %	Height %
1	RT17.320	17.320	107932283	3327622	95.235	96.631
2	RT20.931	20.931	5400688	116029	4.765	3.369
Total			113332972	3443651	100.000	100.000

RECEMIC 5ba:

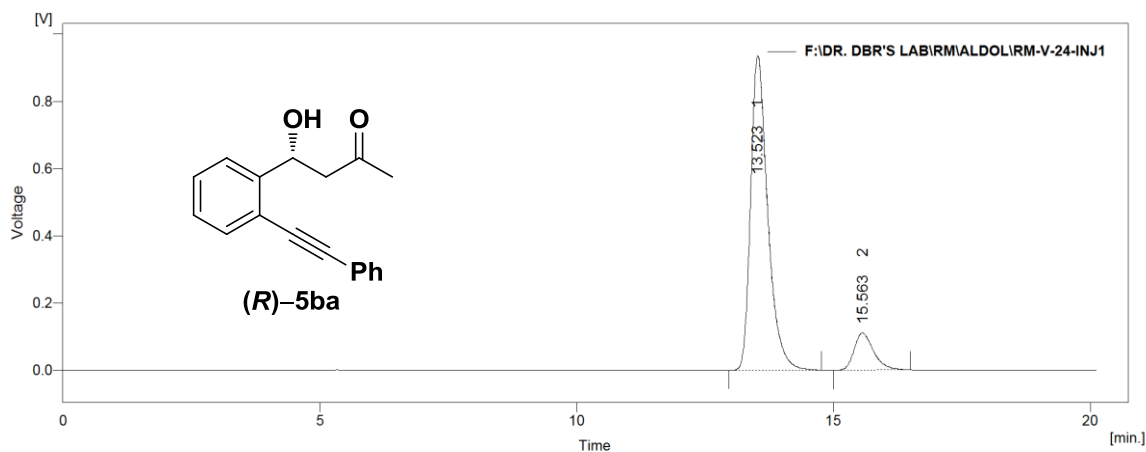


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\RM-IV-417-INJ2)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	13.293	32309.068	995.770	49.7	51.1	0.50
2	15.280	32673.109	951.106	50.3	48.9	0.53
	Total	64982.178	1946.876	100.0	100.0	

CHIRAL (R)-5ba (76% ee):

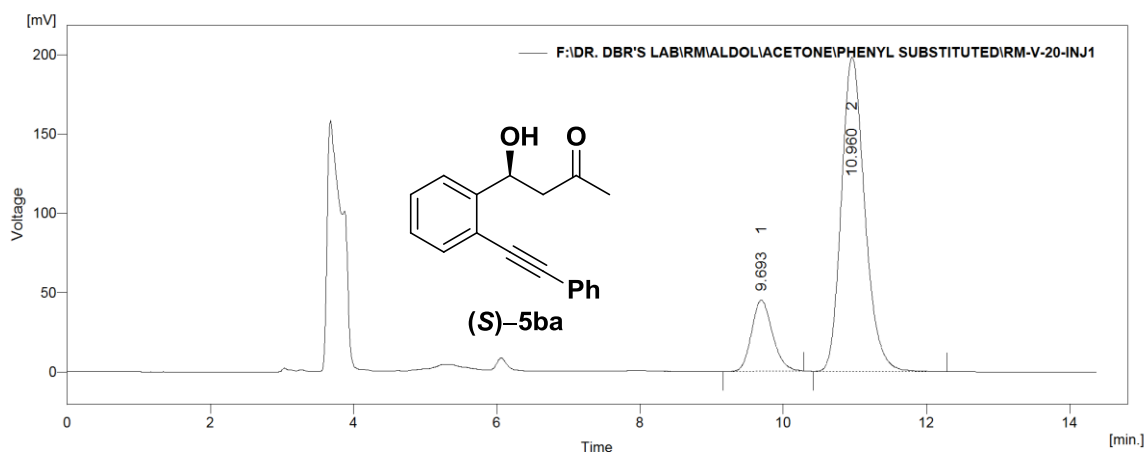


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\RM-V-24-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	13.523	14462.587	624.166	88.1	89.4	0.35
2	15.563	1946.318	73.998	11.9	10.6	0.40
	Total	16408.905	698.164	100.0	100.0	

CHIRAL (S)-5ba (66% ee):

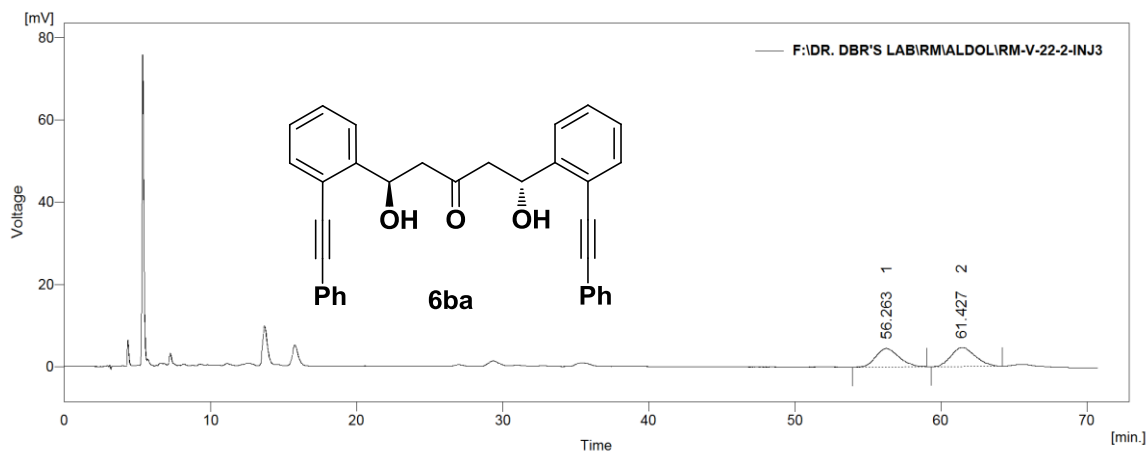


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\ACETONE\PHENYL SUBSTITUTED\RM-V-20-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	9.693	605.948	29.894	16.8	18.4	0.31
2	10.960	2999.855	132.146	83.2	81.6	0.35
	Total	3605.803	162.041	100.0	100.0	

RECEMIC 6ba:

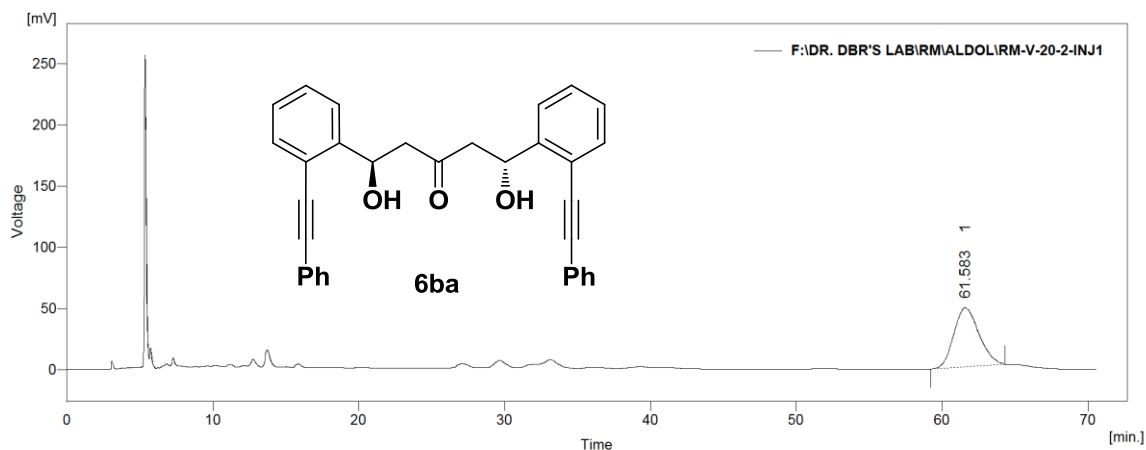


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\RM-V-22-2-INJ3)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	56.263	330.715	3.003	48.5	49.6	1.70
2	61.427	351.629	3.049	51.5	50.4	1.82
	Total	682.344	6.051	100.0	100.0	

CHIRAL 6ba (>99.9% ee):

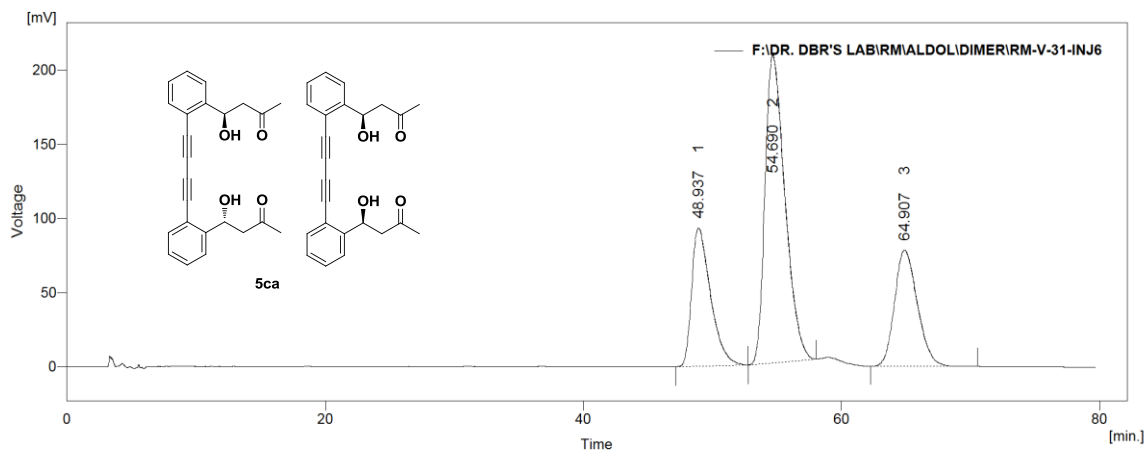


Daicel ChiralPak AD-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\RM-V-20-2-INJ1)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	61.583	3848.328	32.148	100.0	100.0	1.89
	Total	3848.328	32.148	100.0	100.0	

RECEMIC 5ca:

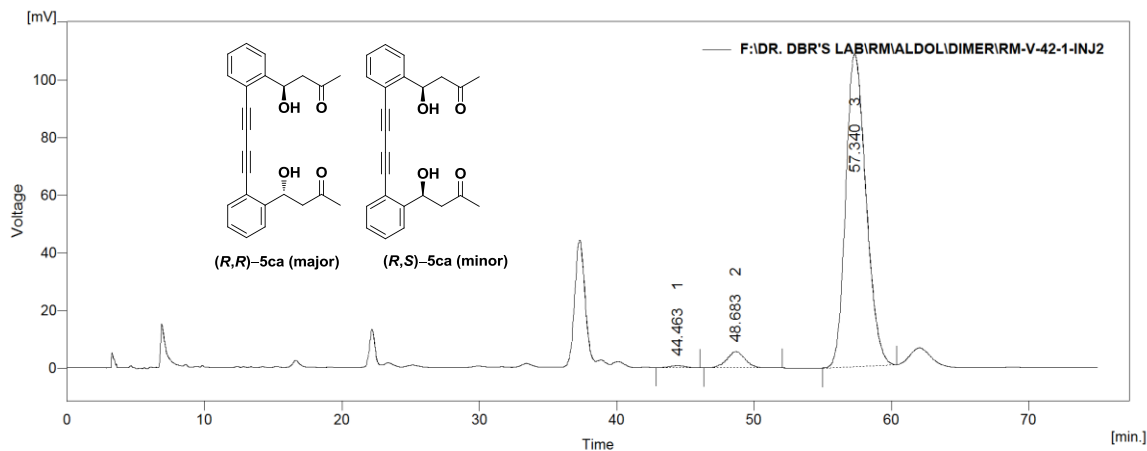


Daicel ChiralCel OJ-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\DIMER\RM-V-31-INJ6)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	48.937	6286.050	61.965	22.8	24.5	1.55
2	54.690	14840.960	138.492	53.9	54.8	1.67
3	64.907	6408.771	52.225	23.3	20.7	1.90
	Total	27535.781	252.682	100.0	100.0	

CHIRAL 5ca (>99% ee):



Daicel ChiralCel OJ-H, Hexane/ *i*-PrOH = 94:06, Flow Rate 1.0 mL/Min, 254 nm

Result Table (Uncal - F:\DR. DBR'S LAB\RMALDOL\DIMER\RM-V-42-1-INJ2)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	44.463	34.645	0.423	0.4	0.6	1.31
2	48.683	354.330	3.760	4.5	4.9	1.41
3	57.340	7414.653	72.379	95.0	94.5	1.59
	Total	7803.627	76.562	100.0	100.0	