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Potential Application in Biocatalysis of Mycelium-Bound Lipases from Amazonian Fungi

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Chromatograms used for the determination of conversion, enantiomeric excess and enantiomeric ratio of (*R*,*S*)-2-octanol resolution reactions are presented. Analyses were performed by gas chromatography coupled to mass spectrometry (Shimadzu GCMS-QP2010) using a chiral stationary phase (Chirasil-Dex CB 25 m × 0.25 mm ID × 0.25 mm). Column temperature was 80 °C. The He pressure was 56.9 kPa and the temperatures of the injector and the detector were 220 °C and 275 °C, respectively.

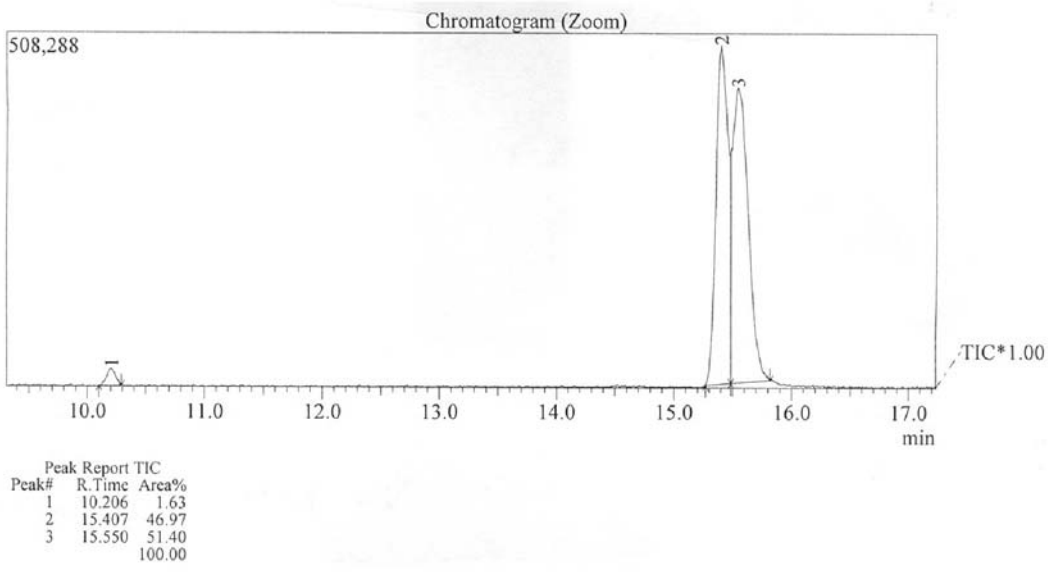

Figure S1. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the isolate UEA_001.

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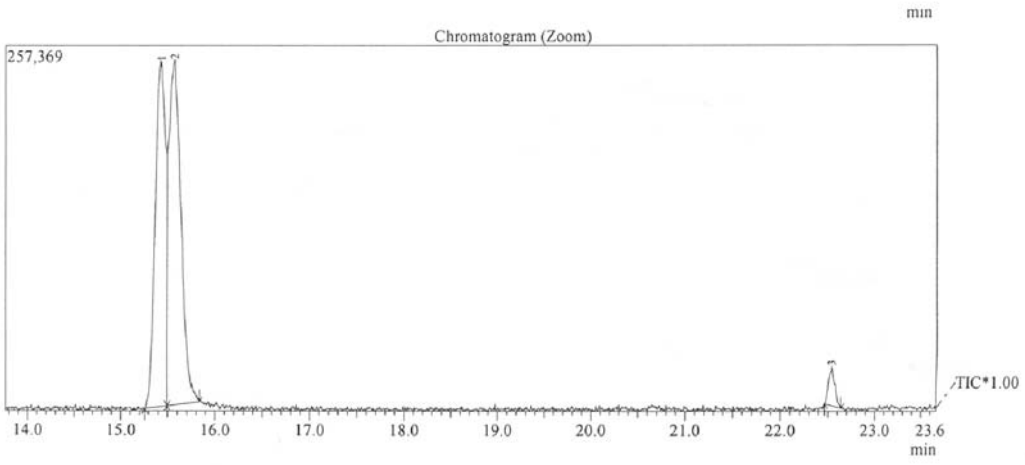
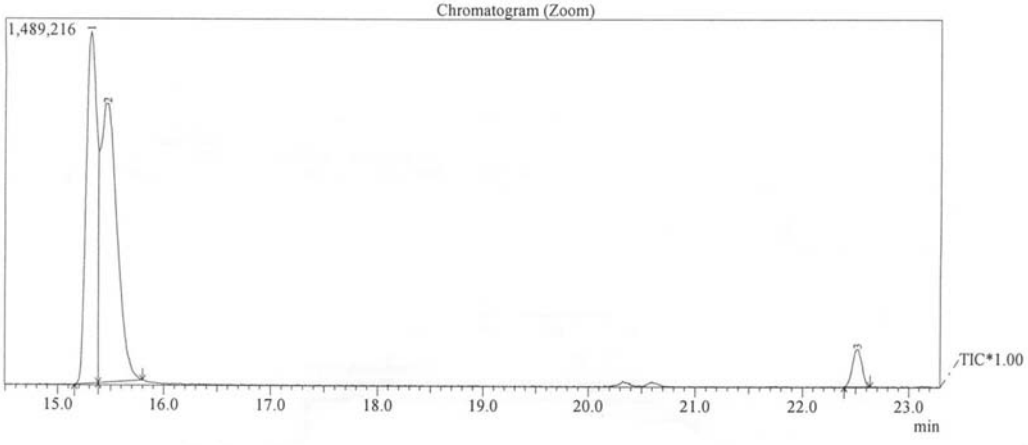


Peak Report TIC

Peak#	R.Time	Area	Area%
1	15.431	1870665	45.44
2	15.571	2122876	51.56
3	22.550	123473	3.00
		4117014	100.00

Peak # 1: (*R*) or (*S*)-2-octanol
Peak # 2: (*R*) or (*S*)-2-octanol
Peak # 3: (*R*) or (*S*)-1-methylheptil acetate

Figure S2. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the isolate UEA_006.

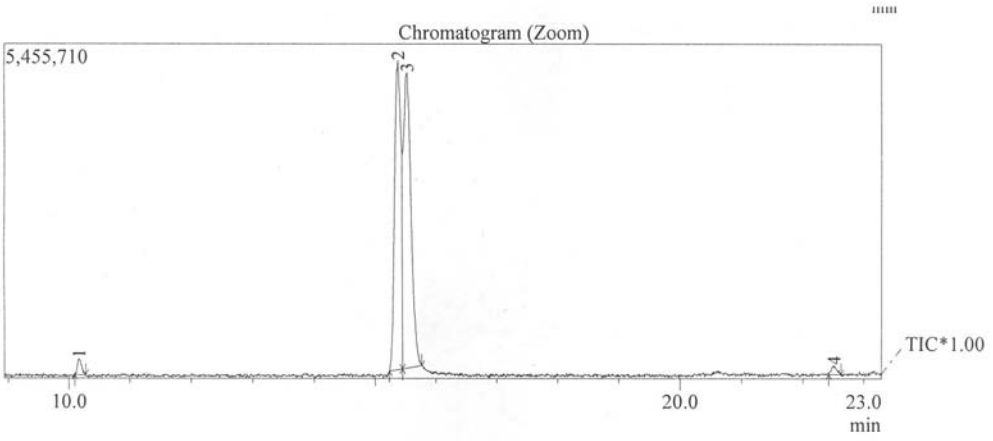


Peak Report TIC

Peak#	R.Time	Area	Area%
1	15.310	10068968	43.40
2	15.463	12192138	52.56
3	22.517	936850	4.04
		23197956	100.00

Peak # 1: (*R*) or (*S*)-2-octanol
Peak # 2: (*R*) or (*S*)-2-octanol
Peak # 3: (*R*) or (*S*)-1-methylheptil acetate

Figure S3. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the isolate UEA_007.

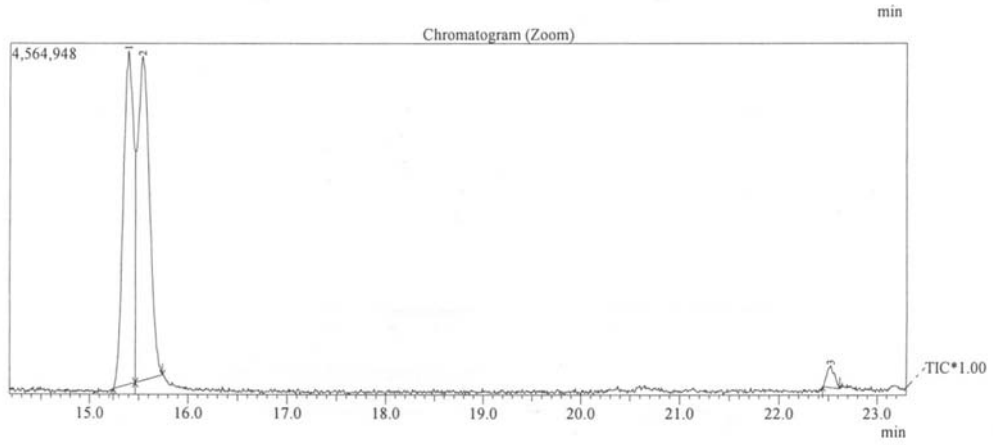


Peak Report TIC

Peak#	R.Time	Area%
1	10.164	1.53
2	15.383	45.69
3	15.530	51.70
4	22.507	1.08
		100.00

Peak # 1: Reaction By-product
Peak # 2: (*R*) or (*S*)-2-octanol
Peak # 3: (*R*) or (*S*)-2-octanol

Figure S4. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the isolate UEA_014.

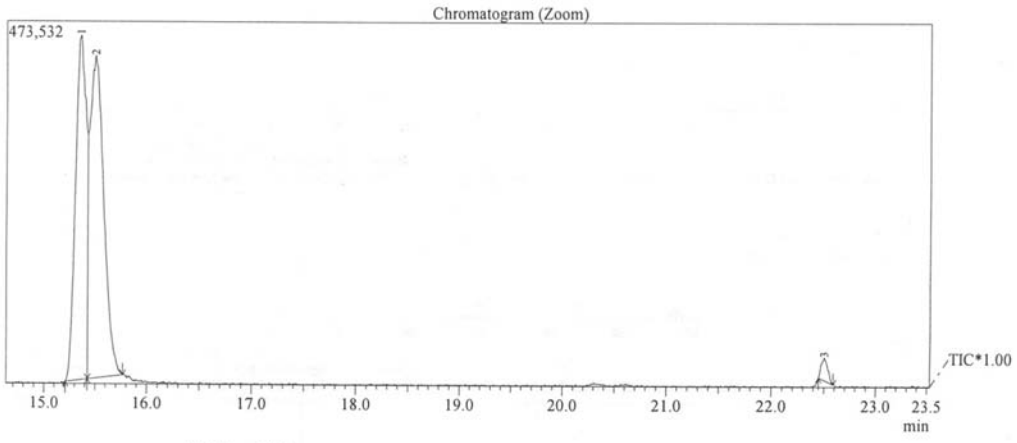


Peak Report TIC

Peak#	R.Time	Area	Area%
1	15.395	30868551	47.07
2	15.539	33296607	50.77
3	22.524	1415061	2.16
		65580219	100.00

Peak # 1: (*R*) or (*S*)-2-octanol
Peak # 2: (*R*) or (*S*)-2-octanol
Peak # 3: (*R*) or (*S*)-1-methylheptil acetate

Figure S5. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the isolate UEA_023.

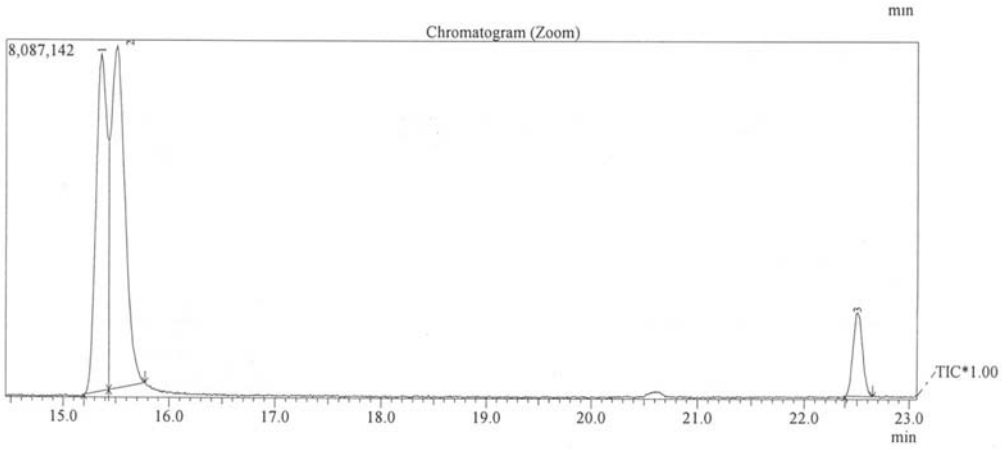


Peak Report TIC

Peak#	R.Time	Area	Area%
1	15.356	3293053	45.15
2	15.498	3877093	53.16
3	22.509	123287	1.69
		7293433	100.00

Peak # 1: (*R*) or (*S*)-2-octanol
Peak # 2: (*R*) or (*S*)-2-octanol
Peak # 3: (*R*) or (*S*)-1-methylheptil acetate

Figure S6. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the isolate UEA_027.

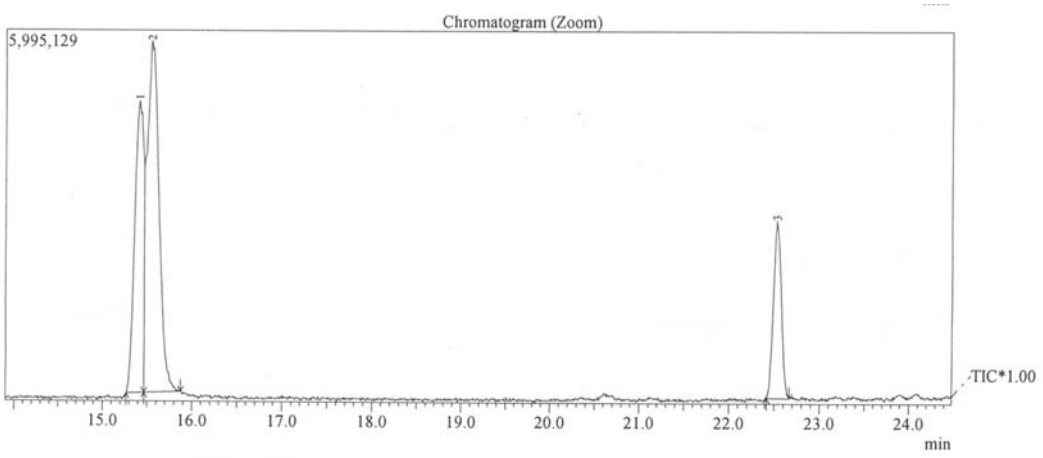


Peak Report TIC

Peak#	R.Time	Area	Area%
1	15.360	56815859	41.47
2	15.508	68523689	50.02
3	22.502	11656959	8.51
		136996507	100.00

Peak # 1: (*R*) or (*S*)-2-octanol
Peak # 2: (*R*) or (*S*)-2-octanol
Peak # 3: (*R*) or (*S*)-1-methylheptil acetate

Figure S7. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the isolate UEA_041.

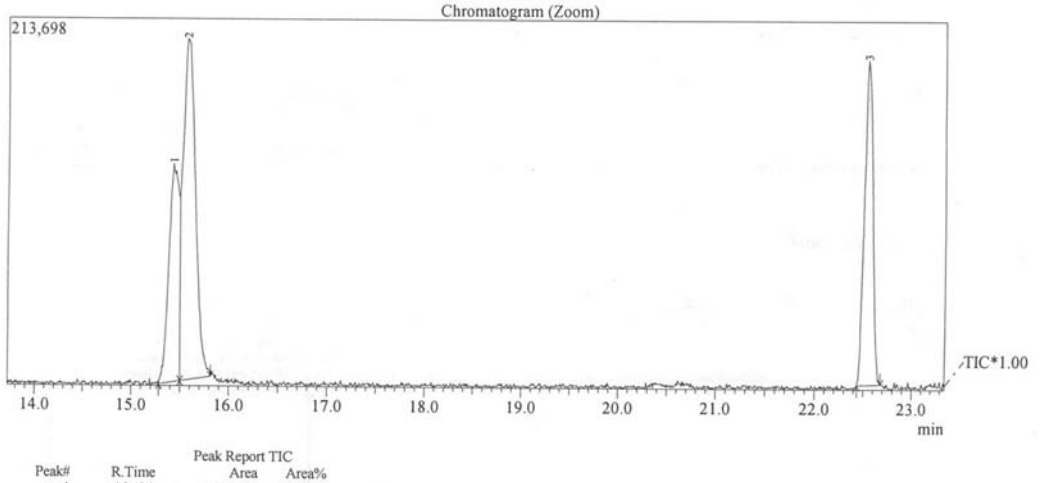


Peak Report TIC

Peak#	R.Time	Area	Area%
1	15.409	32049070	32.39
2	15.547	50262453	50.79
3	22.534	16642809	16.82
		98954332	100.00

Peak # 1: (*R*) or (*S*)-2-octanol
Peak # 2: (*R*) or (*S*)-2-octanol
Peak # 3: (*R*) or (*S*)-1-methylheptil acetate

Figure S8. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the isolate UEA_053.

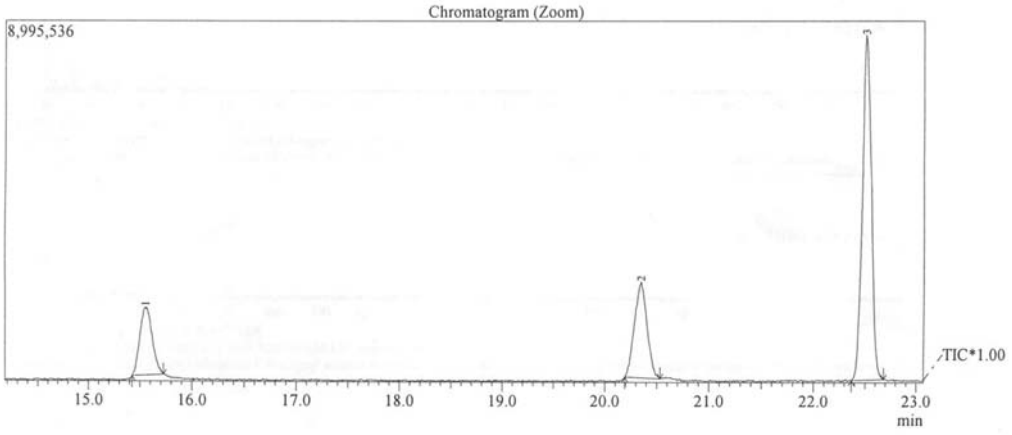


Peak Report TIC

Peak#	R.Time	Area	Area%
1	15.434	928020	24.68
2	15.578	1718006	45.68
3	22.550	1114547	29.64
		3760573	100.00

Peak # 1: (*R*) or (*S*)-2-octanol
Peak # 2: (*R*) or (*S*)-2-octanol
Peak # 3: (*R*) or (*S*)-1-methylheptil acetate

Figure S9. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the isolate UEA_115.



Peak Report TIC

Peak#	R.Time	Area	Area%
1	15.550	13722255	16.25
2	20.349	19711323	23.34
3	22.511	51013335	60.41
		84446913	100.00

Peak # 1: (*R*) or (*S*)-2-octanol
Peak # 2: (*R*) or (*S*)-2-octanol
Peak # 3: (*R*) or (*S*)-1-methylheptil acetate

Figure S10. GC-MS chromatogram of (*R*,*S*)-2-octanol resolution mediated by the commercial enzyme Novozym 435.