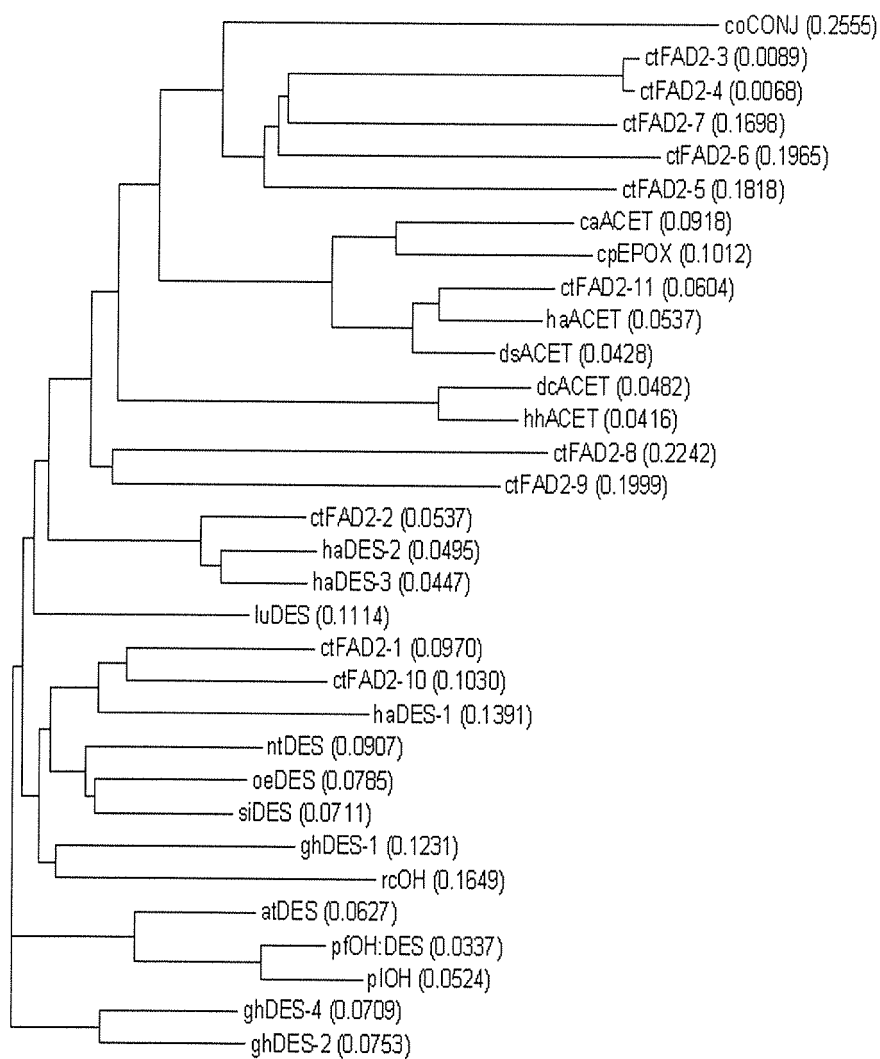


**Figure 1**

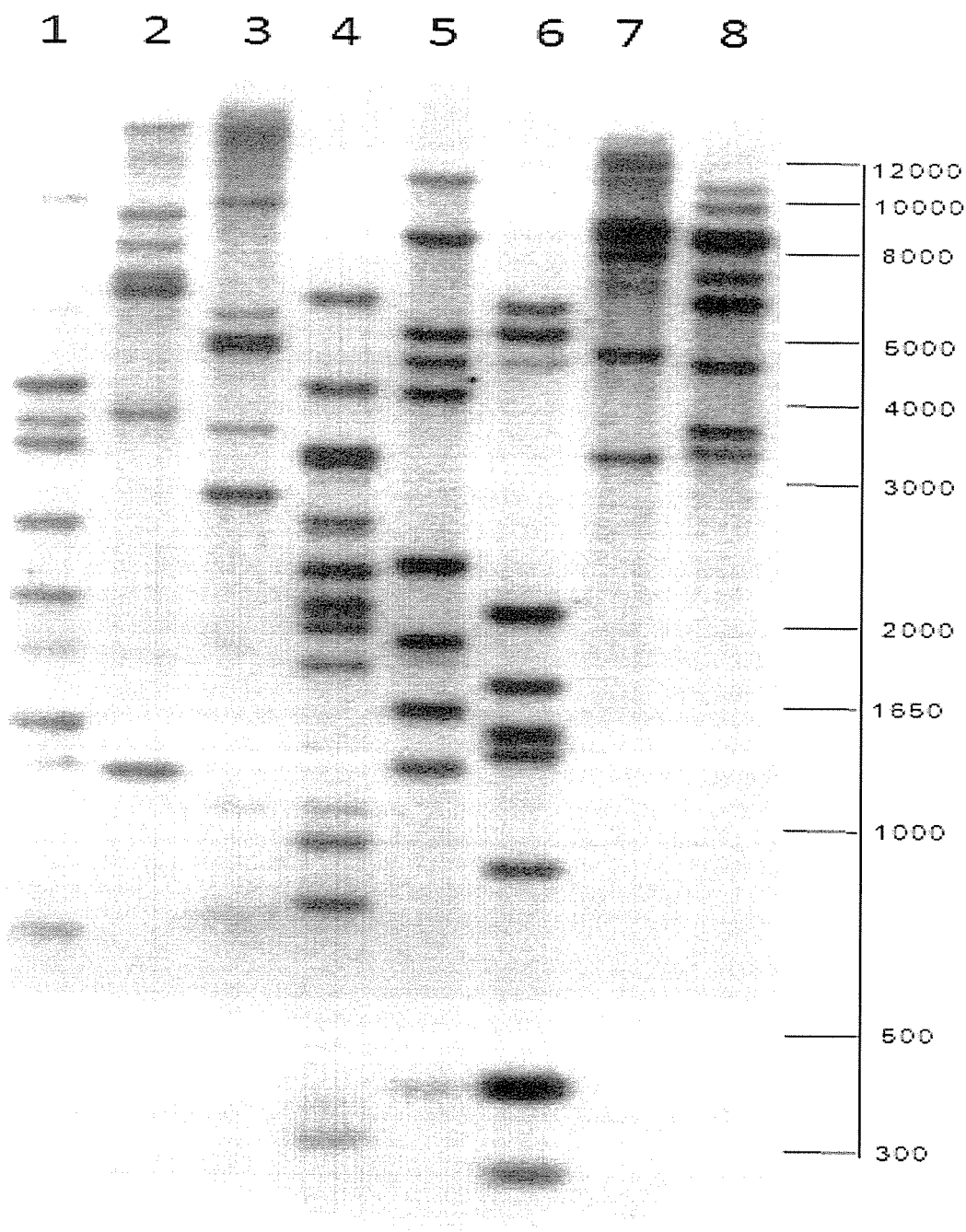
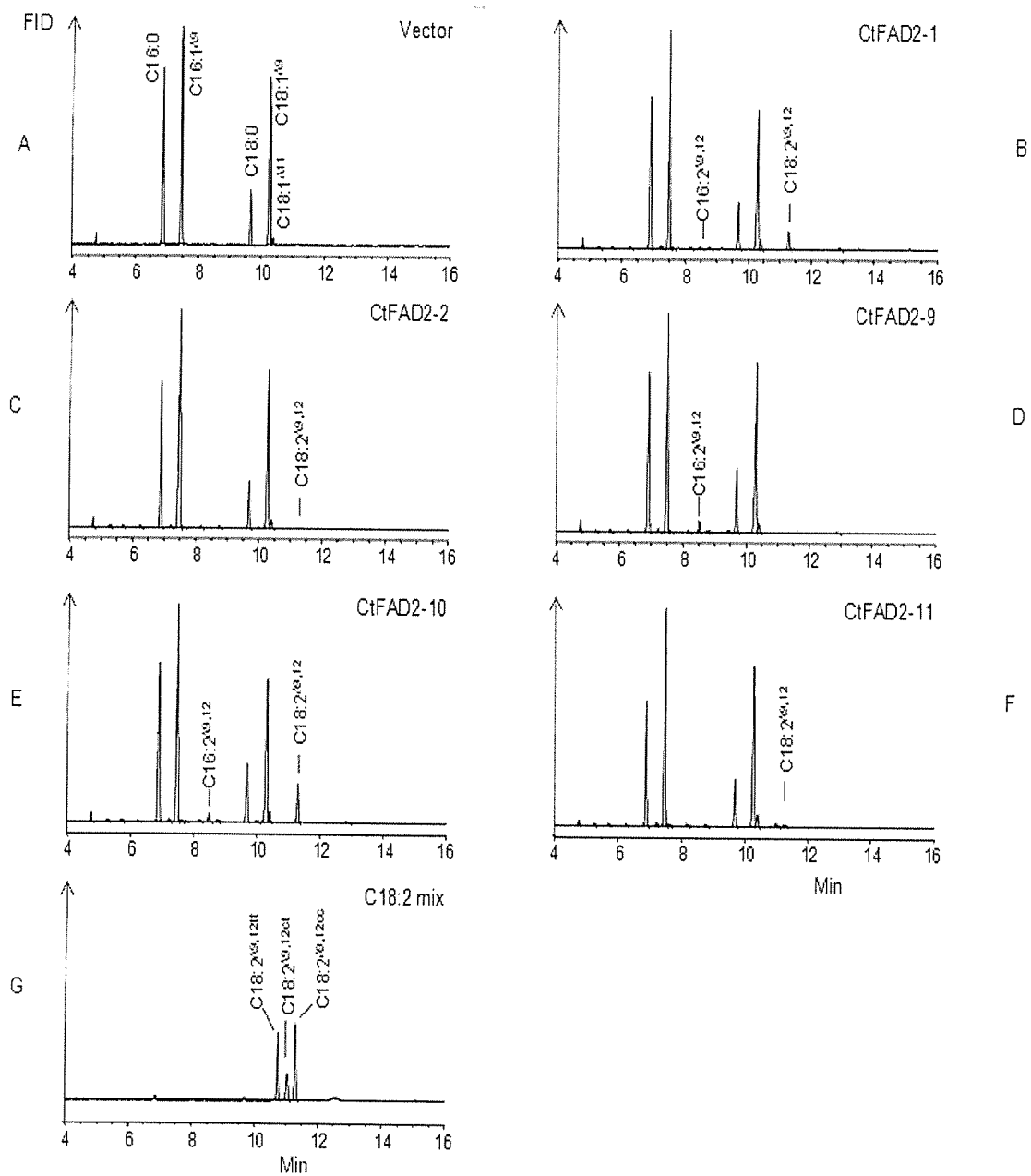
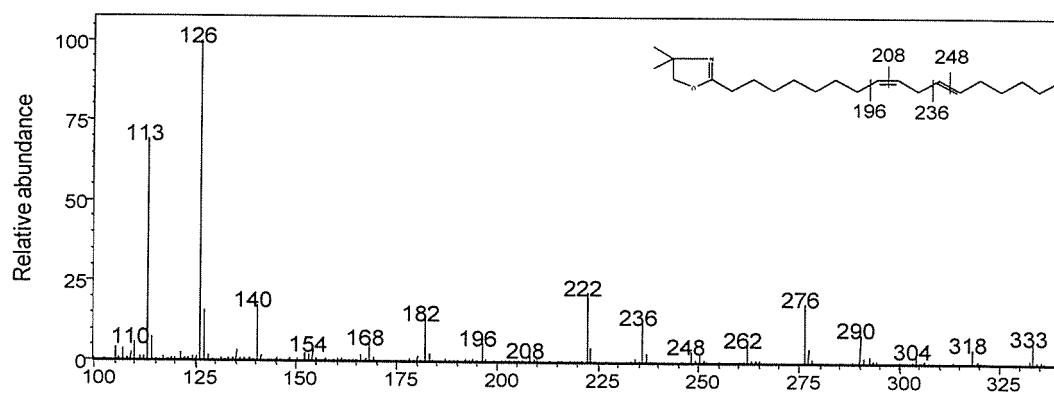


Figure 2

**Figure 3**

H



I

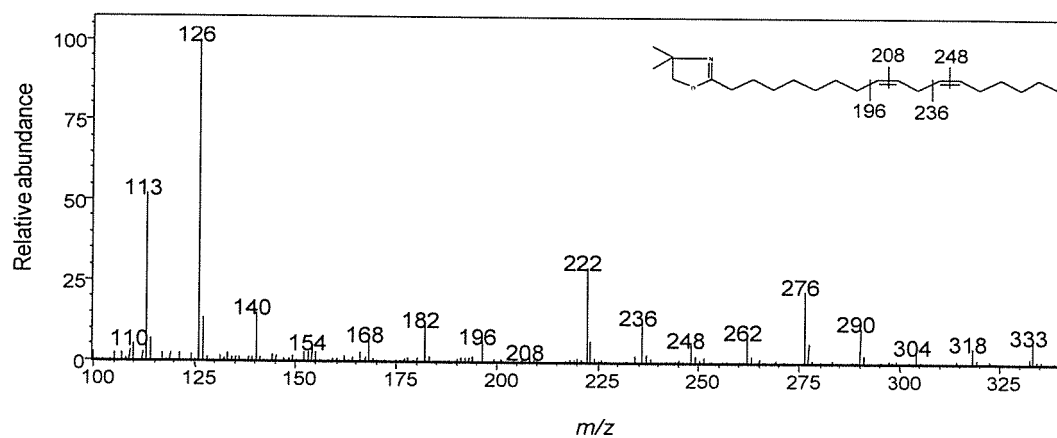


Figure 3 (continued)

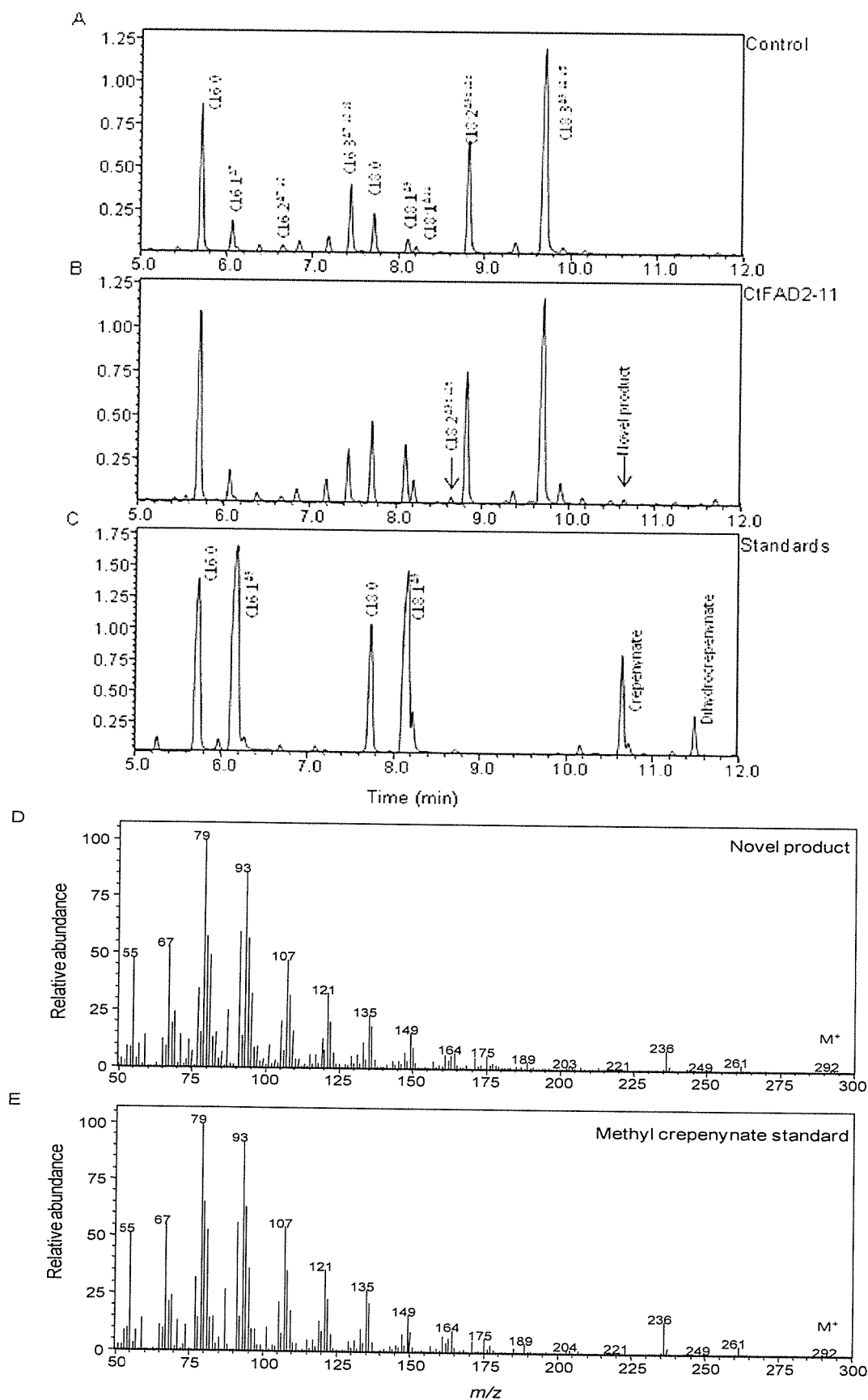
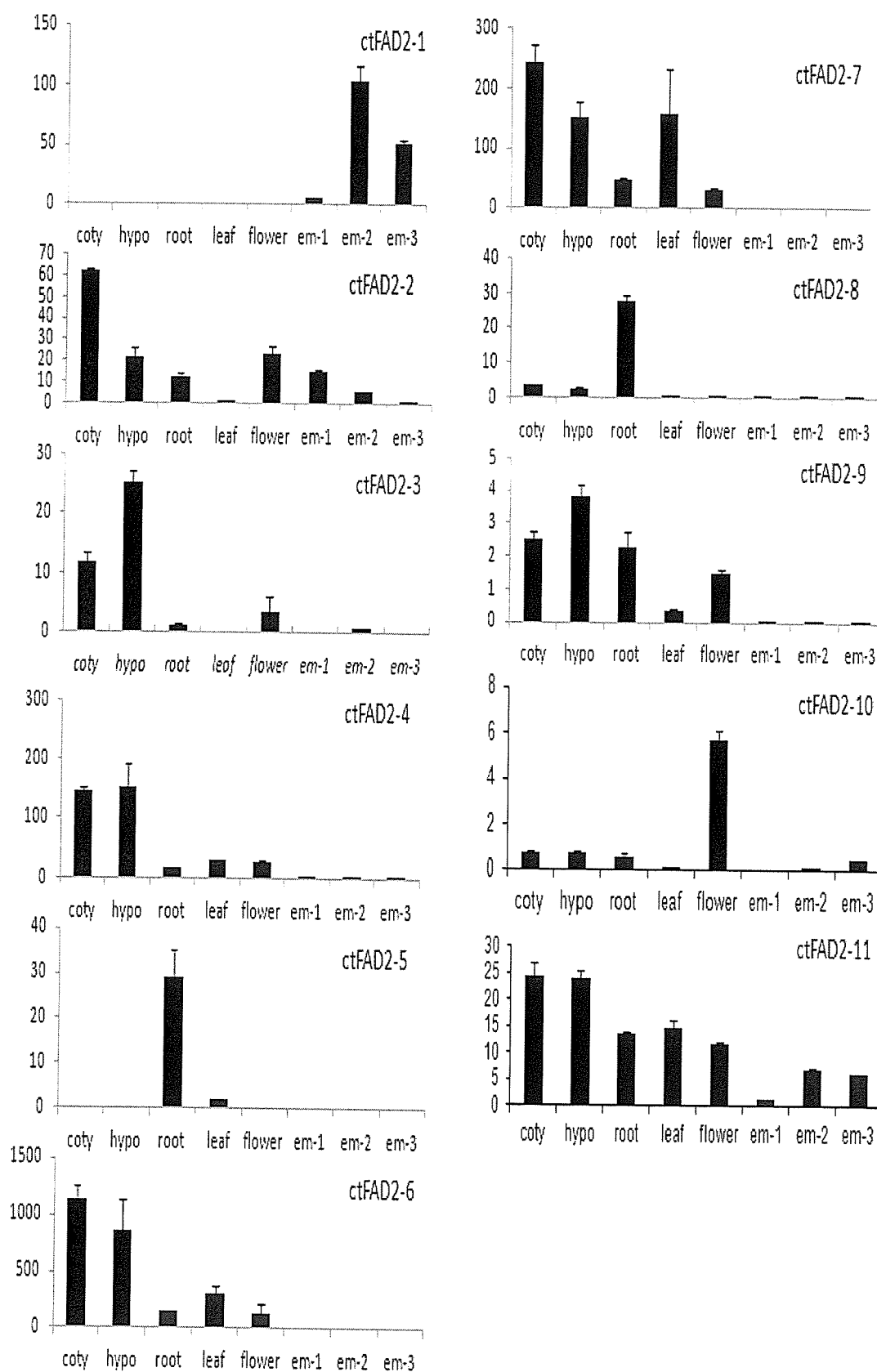


Figure 4

**Figure 5**

	601	650
SU (wt)	(601)	TGTCTTTCAACGTCTCCGGAAGACCCTATGACCGTTTCGCCTGCCACTAC
S-317	(601)	TGTCTTTCAACGTCTCTGGAAGACC-TACAACCGTTTCGCCTGCCACTAT
CW99-OL	(601)	TGTCTTTCAACGTCTCTGGAAGACC-TACAACCGTTTCGCCTGCCACTAT
LeSaf496	(595)	TGTCTTTCAACGTCTCTGGAAGACC-TACAACCGTTTCGCCTGCCACTAT

Figure 6

		1		50
Ct FAD2-1-SU	(1)	GTGCATTCTCTCATTCTCAAAACCTTTCTGCTATTTCATCTGATCAATGT-		
Ct FAD2-1-ol	(1)	GTGCATTCTCTCA-----ACCTTCCTGCTTTTCGTCGATCAATGTT		
		51	HL-sense primer	100
Ct FAD2-1-SU	(50)	-----ATTCA <u>GTTATGGTT-CGATGAT</u> -----CGACGATTA		
Ct FAD2-1-ol	(43)	AATGTATTCAATTATCGTTTCGATGATTTCTATTAAATCTCGACGATTA		
		101		150
Ct FAD2-1-SU	(80)	TTGTTTGTATTTTAATTTTAATTTTACGTTGATTAGCTGCATTGTTG		
Ct FAD2-1-ol	(93)	TCGTTTGTATT----TTTTA--TTTAGGTAGATTAGCTGCATTGTTG		
		151		200
Ct FAD2-1-SU	(130)	GTCGATGAATAGATCTGTGGATTACGGCTTCTGCGAGTTTCAGTTT--GA		
Ct FAD2-1-ol	(137)	GTTGATGAATAGATCTGTAGATTACGGCTCTCTGCGCTTTCAGTTTTTGA		
		201		250
Ct FAD2-1-SU	(178)	TTAATTCAGTCCGTTTTCTCCTGTAAATTTGTGTATCTATCTGTGTTG		
Ct FAD2-1-ol	(187)	TTCATTCAGTCCGTTTTCTTCTGTAAATTTGTGTATCTATCTGTGCTG		
		251		300
Ct FAD2-1-SU	(228)	CATGTAATTTTGTTCCTTTAGATTATAGAAATGAAATCCATAATTTTA		
Ct FAD2-1-ol	(236)	CATGTAATTTTGTTCCTTTAGATTATAGAAATGAAATCCATAATTTTA		
		301		350
Ct FAD2-1-SU	(278)	GGGCTGCTTGTCTTGTTCGATTGTTGTTATTAGGTTTTCATCACAGTAA		
Ct FAD2-1-ol	(286)	GGGCTGCTTCTCTTGTTCGATTGTTGTTATTAGGTTTAAATTACAGTAA		
		351		400
Ct FAD2-1-SU	(328)	CTTCCGTACGTTTAAATATGTAAATGCTAAACAAAATGATTATTTTTTA		
Ct FAD2-1-ol	(336)	CTTCCGTACGTTTAAATATGTCAAATGCTAAACAAAATGATTGTTTTTA		
		401		450
Ct FAD2-1-SU	(378)	TATTTATGGCTTCTCGGTGGTCGGATTGTTGTTTTTAATTCCTGAAGTTT		
Ct FAD2-1-ol	(386)	TATTTATGGCTTCTCGGTGGTCGGATTGTTGTTTTTAATTCCTGAAGTTT		
		451		500
Ct FAD2-1-SU	(428)	CTGTATACAATGATTTCGAATTTTGCCGATTAGGCATCTCTTACTTTGG		
Ct FAD2-1-ol	(436)	CTGTATACAATGATTTCGAATTTTGCCGATTAGGCATCTCTTACTTTGG		
		501		550
Ct FAD2-1-SU	(478)	AAGGAATTCAGATTTTCTT-----AATCTCATAGAGAAGTC		
Ct FAD2-1-ol	(486)	AAGGATTTCTAGATTTTCTTTGCCGATTCTTAATCTTATATAGAAATG		
		551		600
Ct FAD2-1-SU	(515)	CTGAT-----TC-----GGAATTTGCTTAAAGATATAAGCACTTTTCAG		
Ct FAD2-1-ol	(536)	ATGATATCATTGACAAATGGCAATTGCTTAAAGATACAAGCATTTTTCAG		
		601		650
Ct FAD2-1-SU	(554)	TTCATTGATTGTTTGATGGACATCAGA-TGGTTTTTTGCTGATGCCATG		
Ct FAD2-1-ol	(586)	TTCATTGAATGTTTGATGGACATCAAAATGGATTTTTGCTGATG-----		
		651	HL-antisense	700
Ct FAD2-1-SU	(603)	ATGTCTATTGTGTGAATGTATCTTCAATAAGTGCCCTTCAATATGTATAG		

Figure 7

```

CtFAD2-1-ol (631) ---TCTACTGTGTTGAATGTACCTTCATATAGC-----
                                     701
CtFAD2-1-SU (653) CAAAAGCTGAGCTAAGGCTGTGTTTGGCAAACTACCTGATAAGCTATATGT 750
CtFAD2-1-ol (661) -----CTGTGTTTCACG---GGTTTGGCATGCTAGCTGATAG-----
                                     751
                                     800
CtFAD2-1-SU (703) TGACTGATAAGCTAGTTTGTGAATAAAATTATGTTTGGCAAACTAGCAT
CtFAD2-1-ol (694) ---CTGATAAGCTAGCTTATGAATAAAATTATGTTTGGTAAAACTAGCTT

                                     801
                                     850
CtFAD2-1-SU (753) ATGACTATCTAAAATGACTAAAAAGGCTATCTTGGGGTATAATACTTAAT
CtFAD2-1-ol (741) ATGACTATCTAAAATGACAAAAAGG-TACCTCGGAGTCTAATAATTAAT

                                     851
                                     900
CtFAD2-1-SU (803) ATTGATAAGGATACAATTGGAGAAGGCTACAAAAAGCCCTTGAAATGCTA
CtFAD2-1-ol (790) ATTAATAAGGGTATAAATTGGAAGAGCCTACTAAAAGCTCCTACAACGCTA

                                     901
                                     950
CtFAD2-1-SU (853) CTCCAAGTACTGTTTCAATAAGCTGG-CTTATGGTCTATCCAACATGTA
CtFAD2-1-ol (840) CTCCAAGTAAAGTTTCAATAAGCTTAACTTATGGTCCATCCAACATGTA

                                     951
                                     1000
CtFAD2-1-SU (902) CTAGATATCATCTAGCTTATTTTGGCAAACACAGCCTAAATG-TTTGA
CtFAD2-1-ol (890) CTAGCTTATAAGCCAGCTTATTTTGGCAAACACAGCCAAAGTACTTTCA

                                     1001
                                     1050
CtFAD2-1-SU (951) TGGTTCGATGGC-----TGGCAC-----TTGAC
CtFAD2-1-ol (940) TGGTTGATATCCTTGTATCCCAACTGAGCTAAATGGTCCGATGGTCCGAC
                                     1051
                                     1100
CtFAD2-1-SU (973) AATTGACATCATTATAACT-----GAAACAATAA-----
CtFAD2-1-ol (990) GAGTTGACATCATTATAATTATATATTTTGAATCCTTAAGGCTAACGTT

                                     1101
                                     1150
CtFAD2-1-SU (1003) -----TATTCACCTT-----TACATAACATTCACCT
CtFAD2-1-ol (1040) TCCTTAGT TTTTATTATGTGTGATGGTGGCATTACATAATATTCACCT

                                     1151
                                     1200
CtFAD2-1-SU (1029) TTAGCCAAAACTAGATGTTACCTACGAACTGATCCATATGGAACATTT
CtFAD2-1-ol (1090) TTAGCTAAAACTAGATGTTACCTACGAACTGATCCATATGGAACATTT

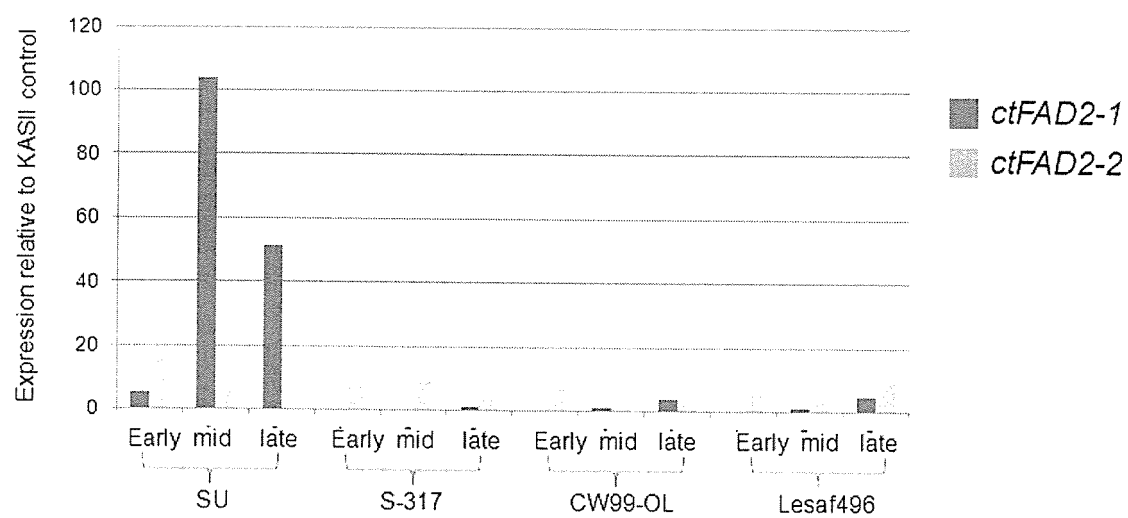
                                     1201
CtFAD2-1-SU (1079) TGCAG
CtFAD2-1-ol (1140) TGCAG

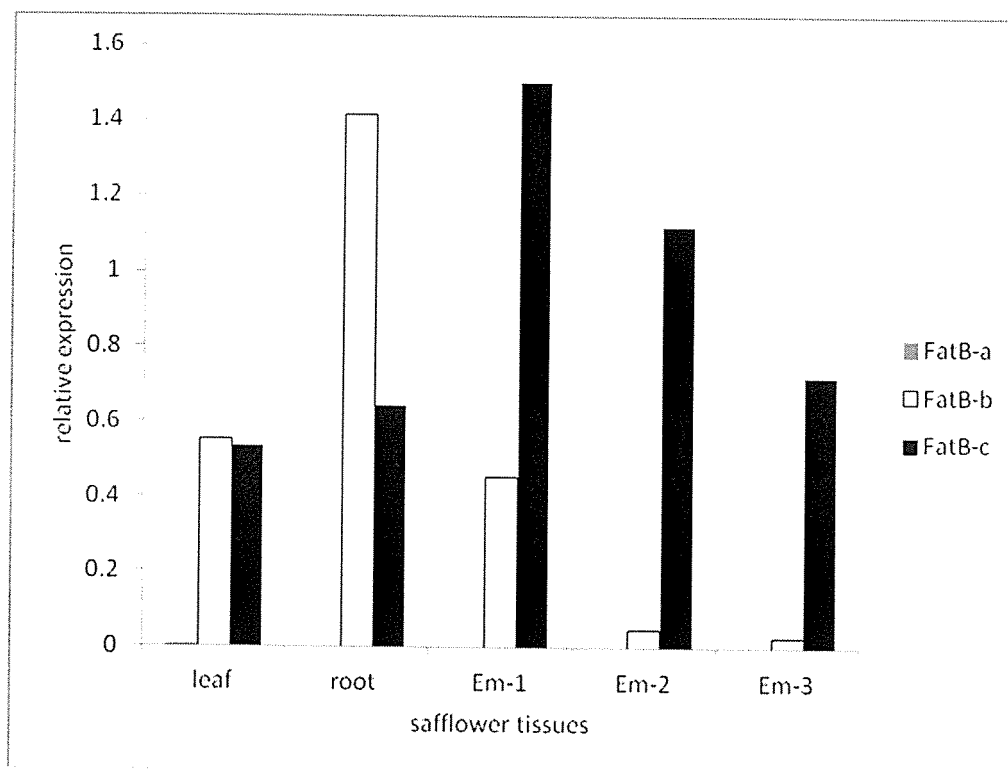
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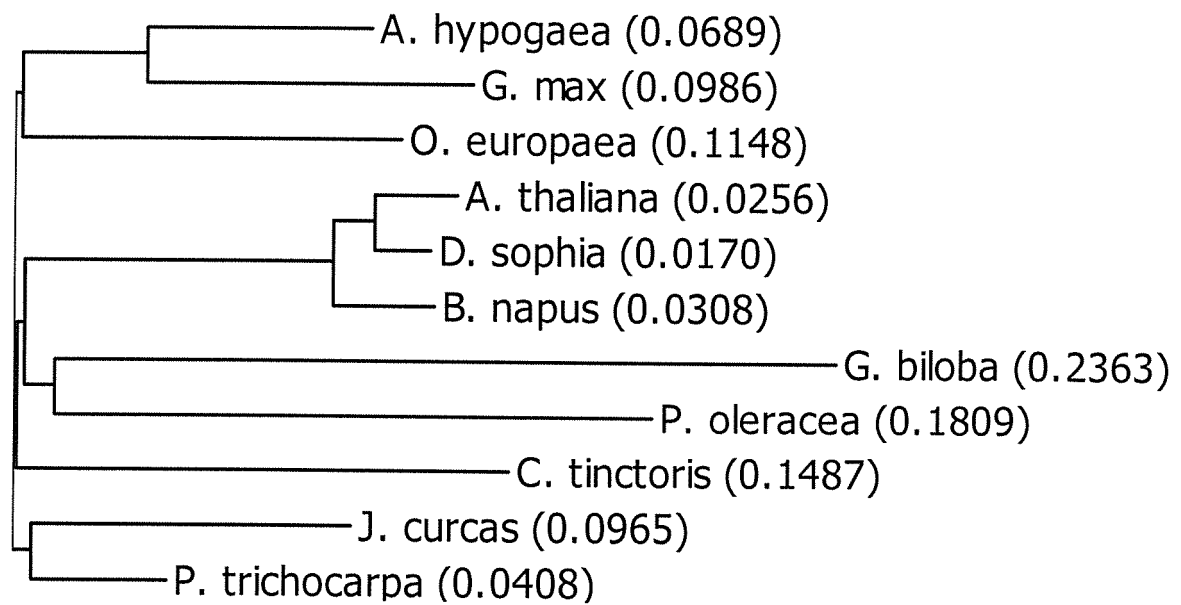
→ HO sense primer

← HO antisense primer

Figure 7 (contintued)

**Figure 8**

**Figure 9**

**Figure 10**

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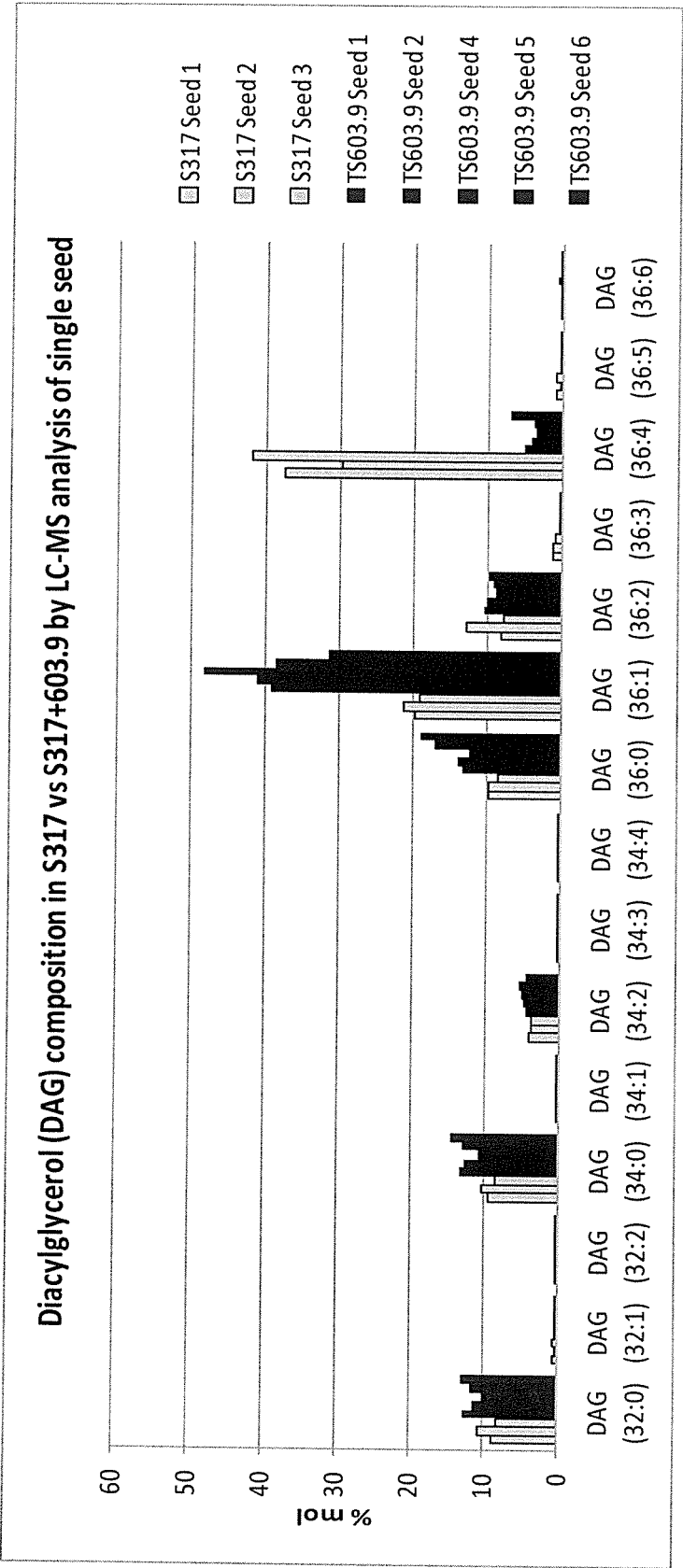


Figure 11

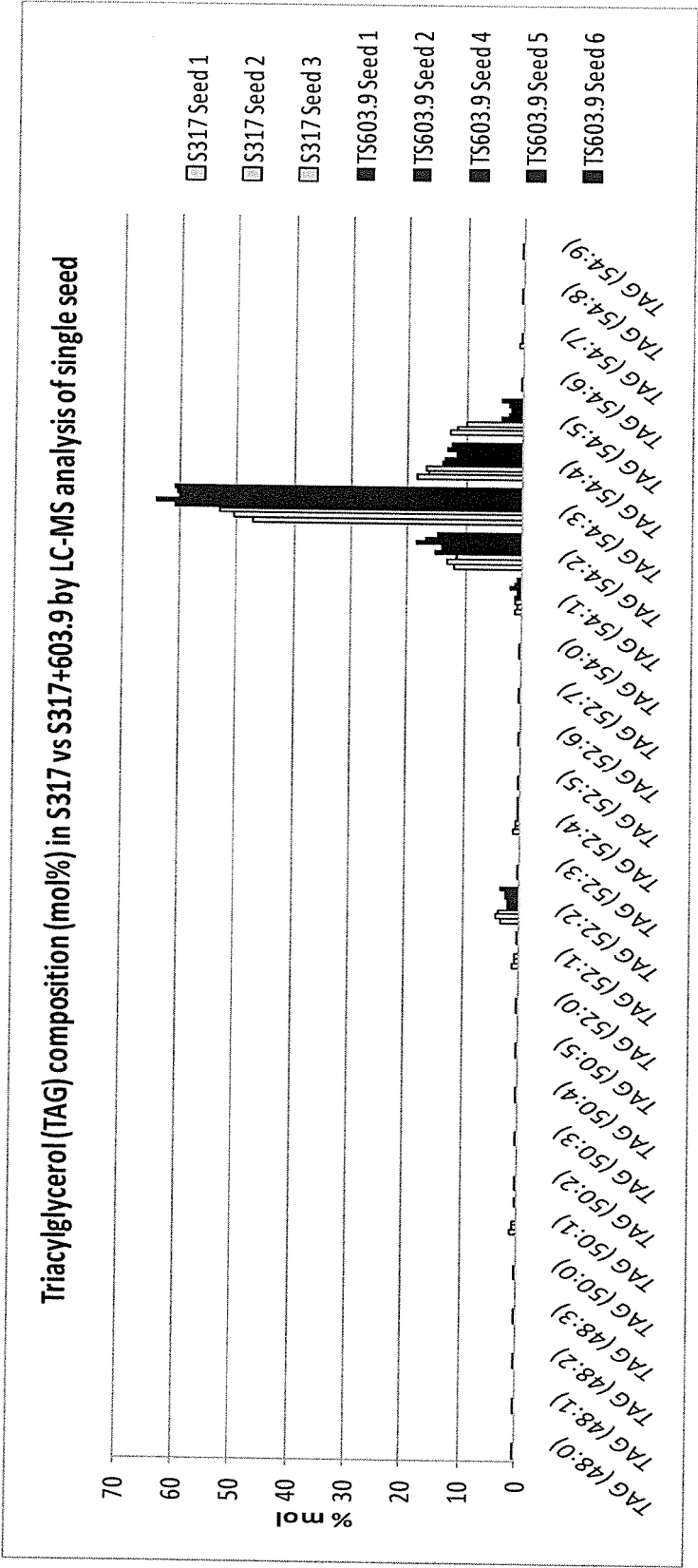


Figure 12

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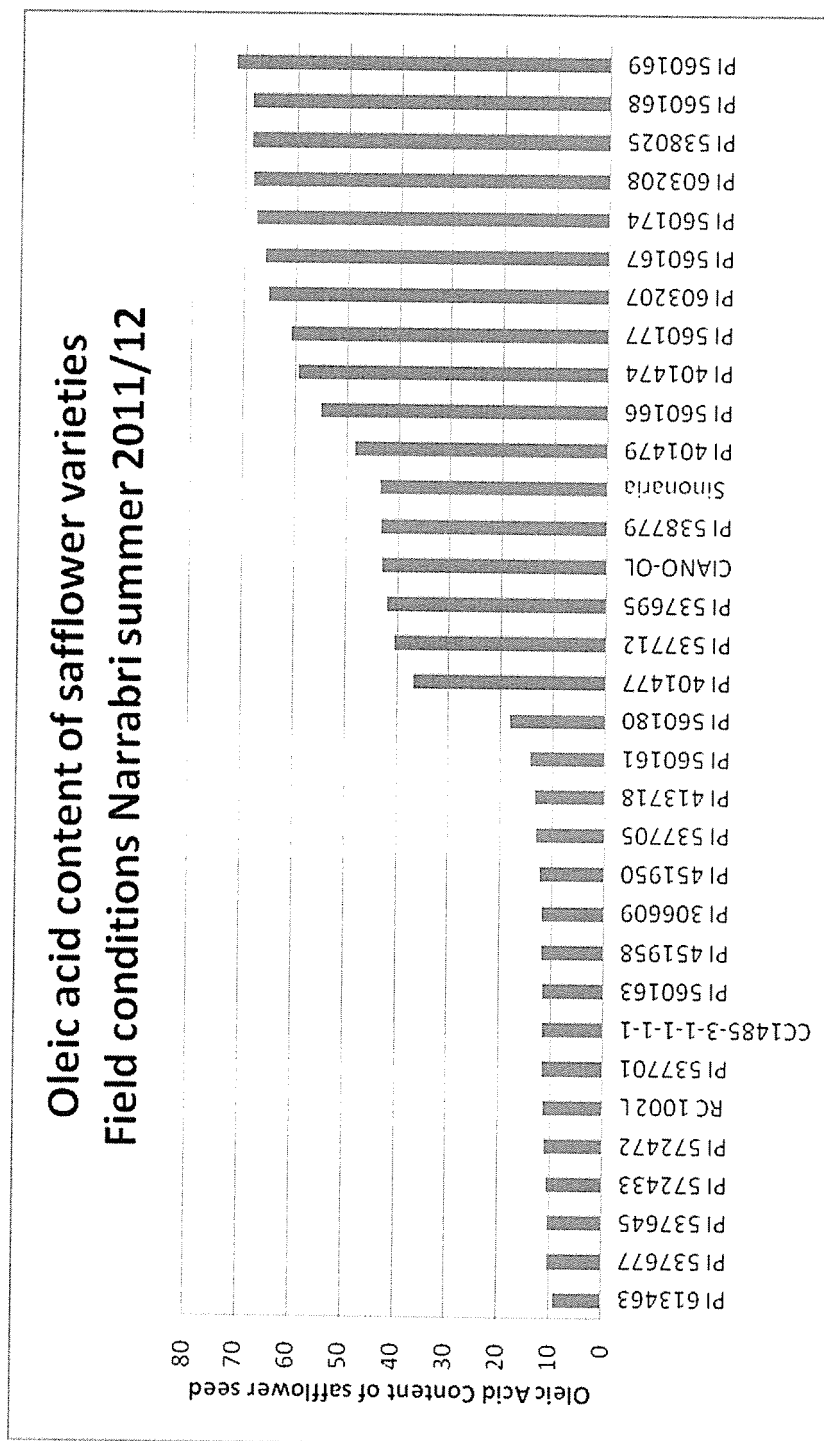
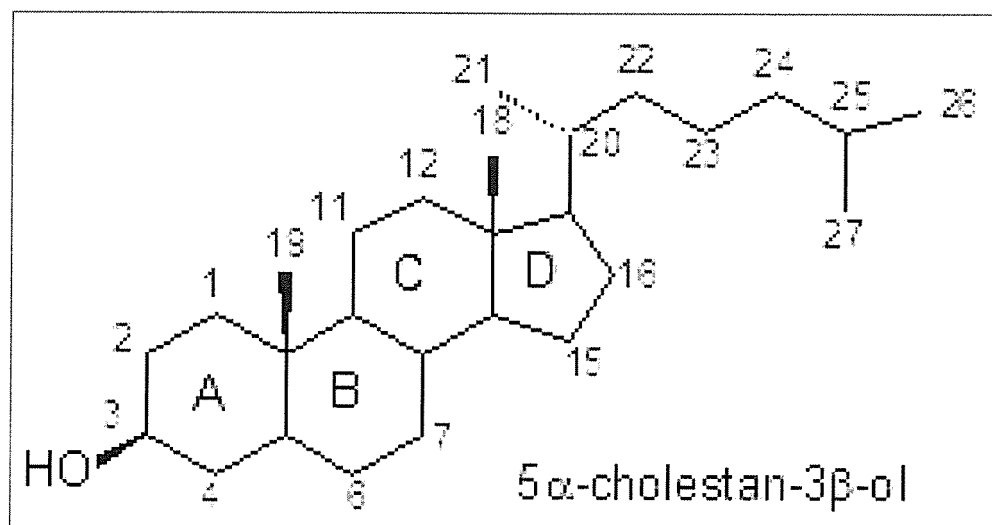
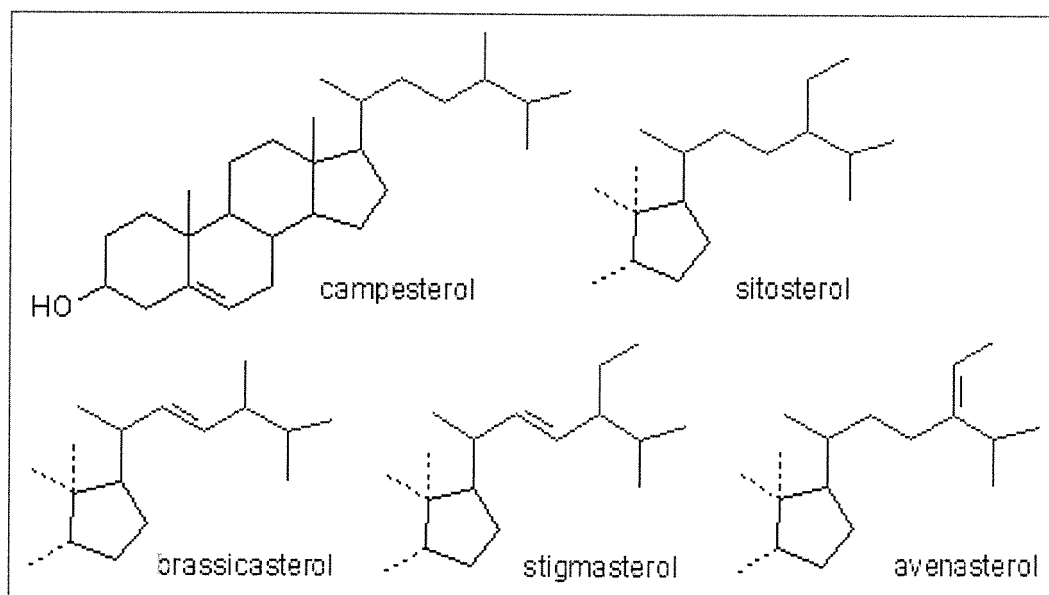


Figure 13

A)



B)

**Figure 14**