

Figure 1

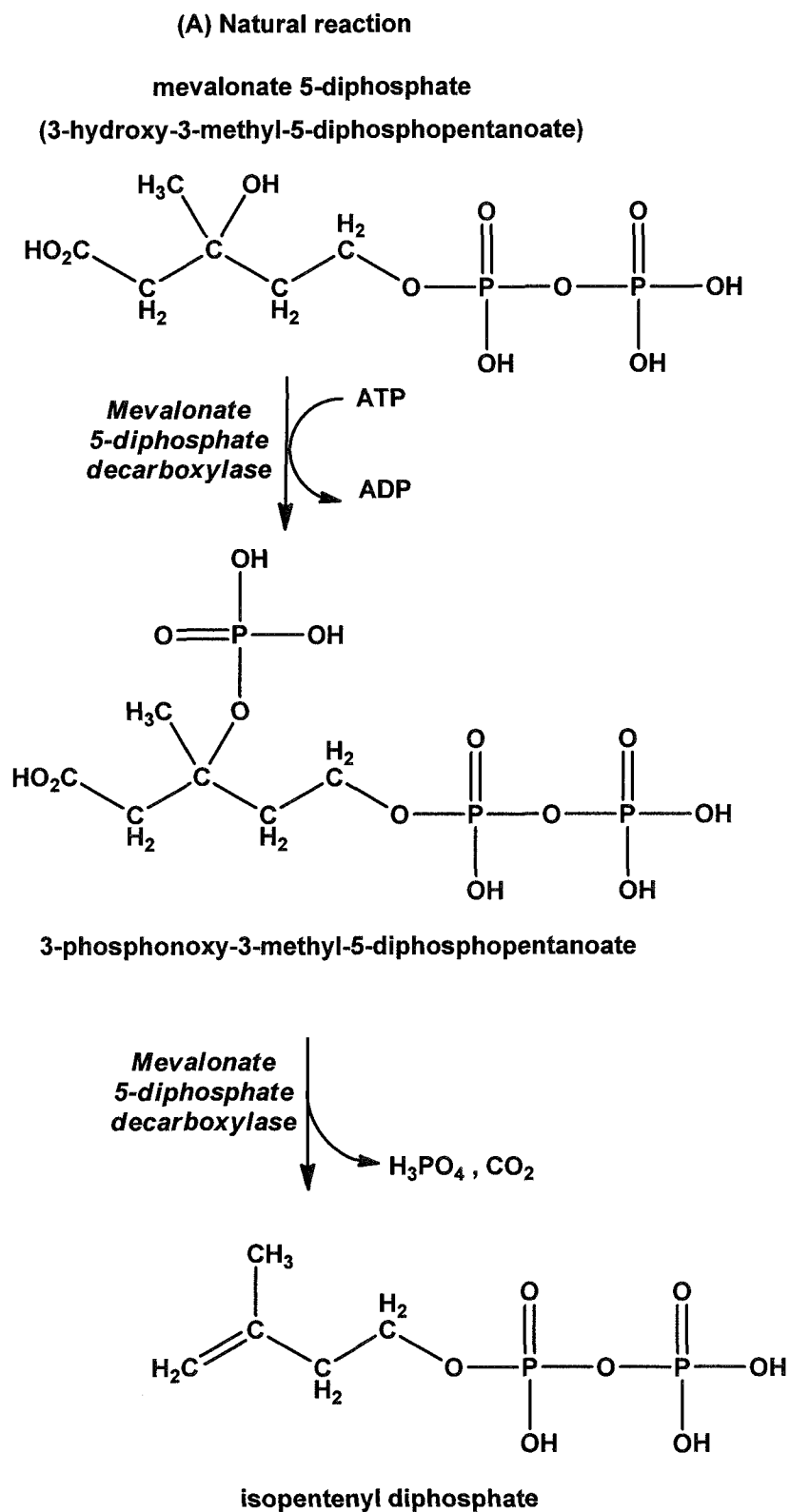
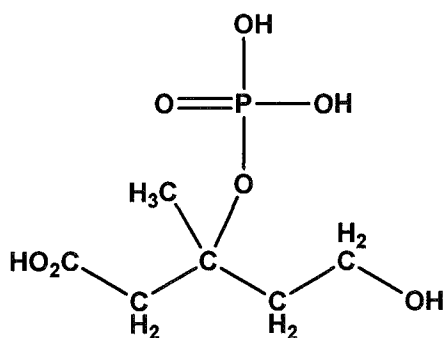
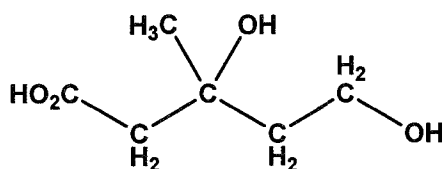


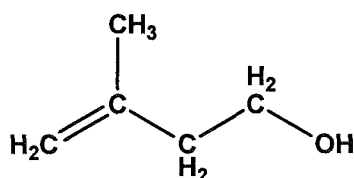
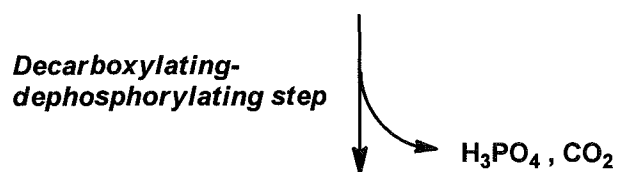
Figure 2 A

(B) Target reaction

mevalonate
(3,5-dihydroxy-3-methylpentanoate)

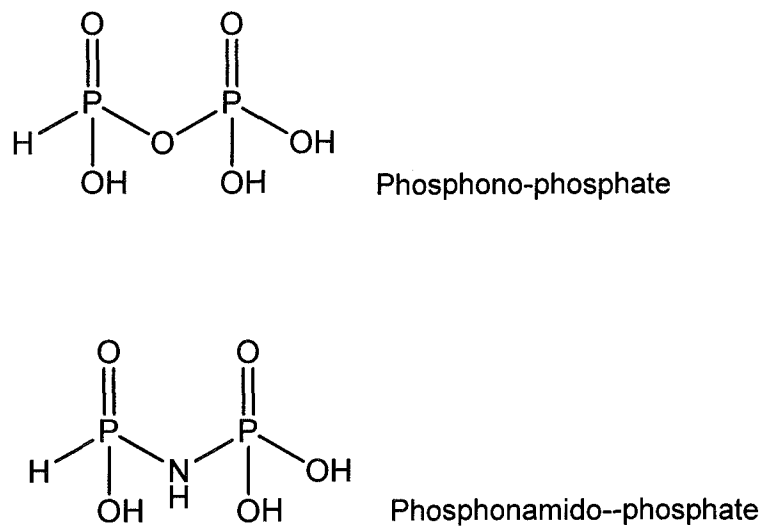


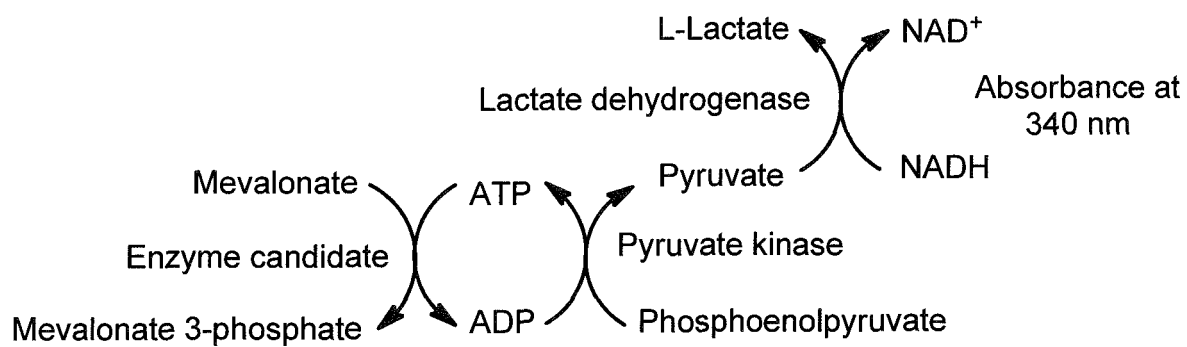
mevalonate 3-phosphate
(3-phosphonoxy-3-methyl-5-hydroxypentanoate)

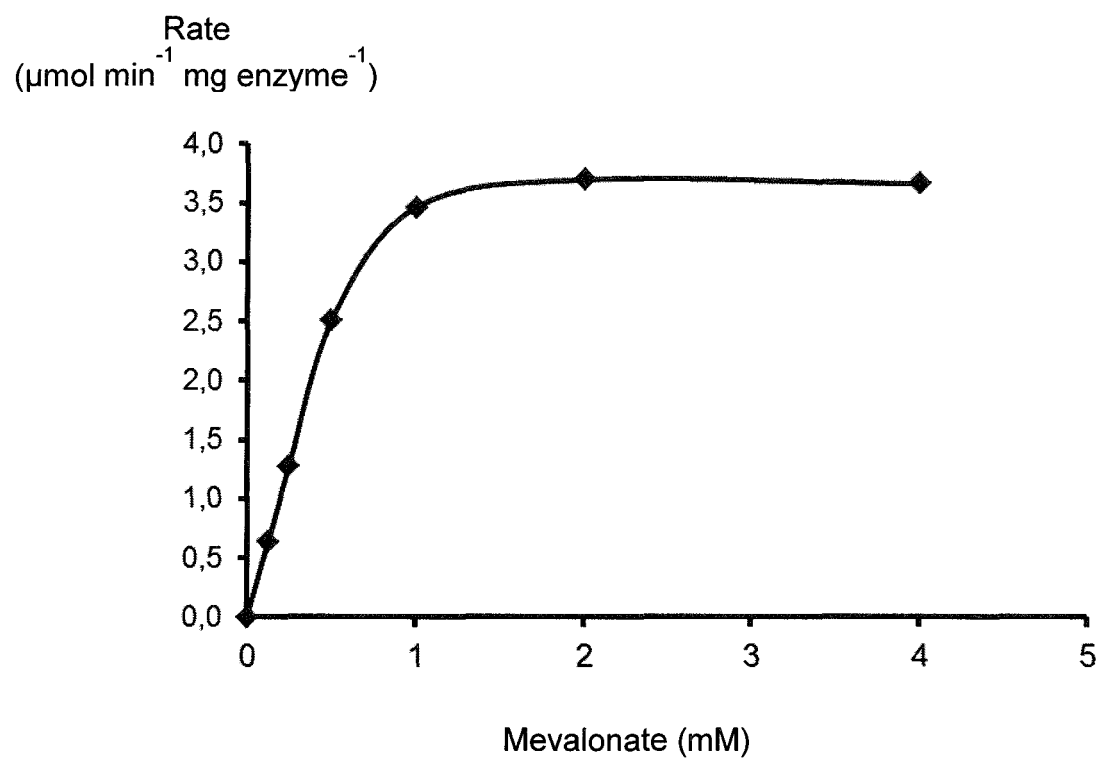


isoprenol

Figure 2 B

**Figure 3**

**Figure 4**

**Figure 5**

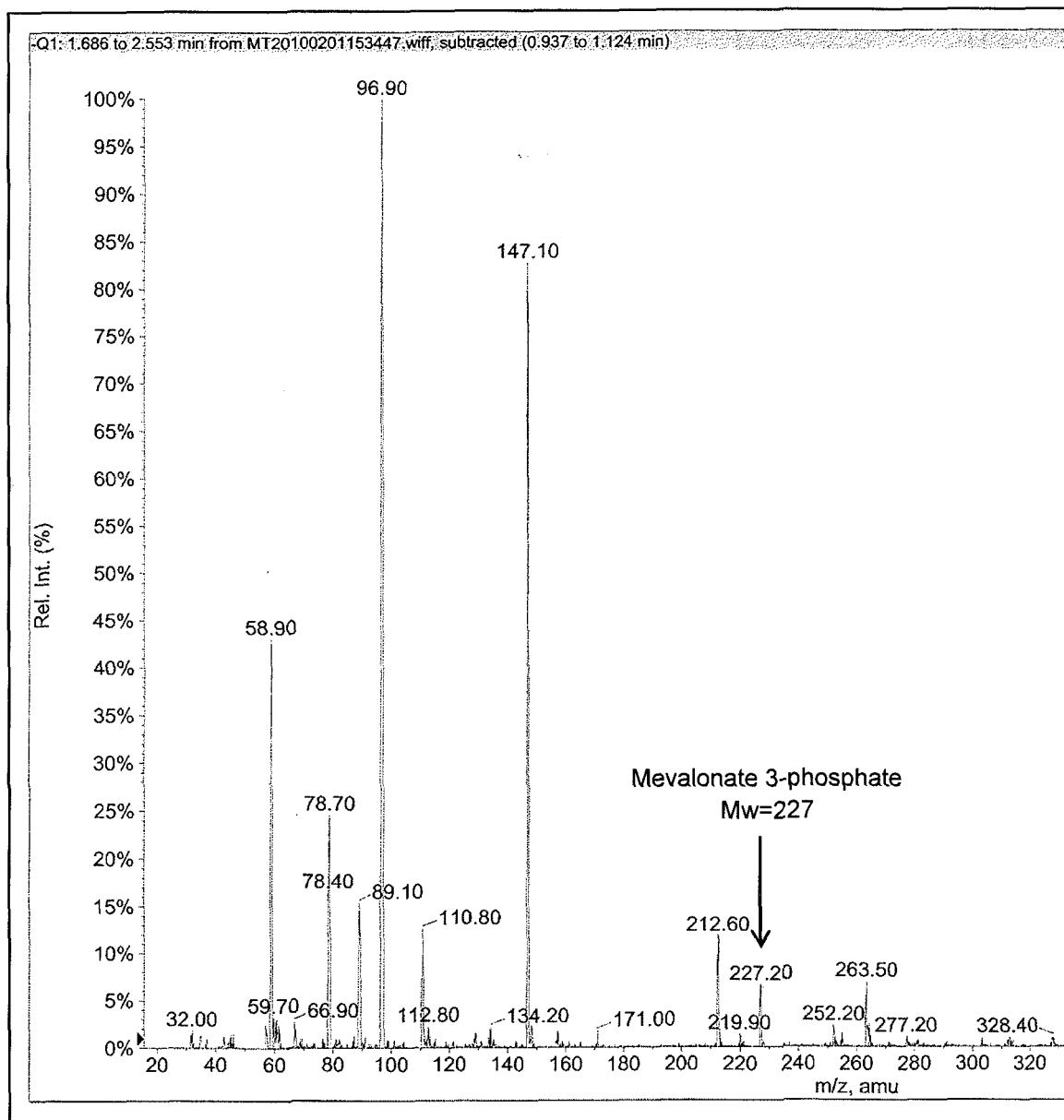


Figure 6a

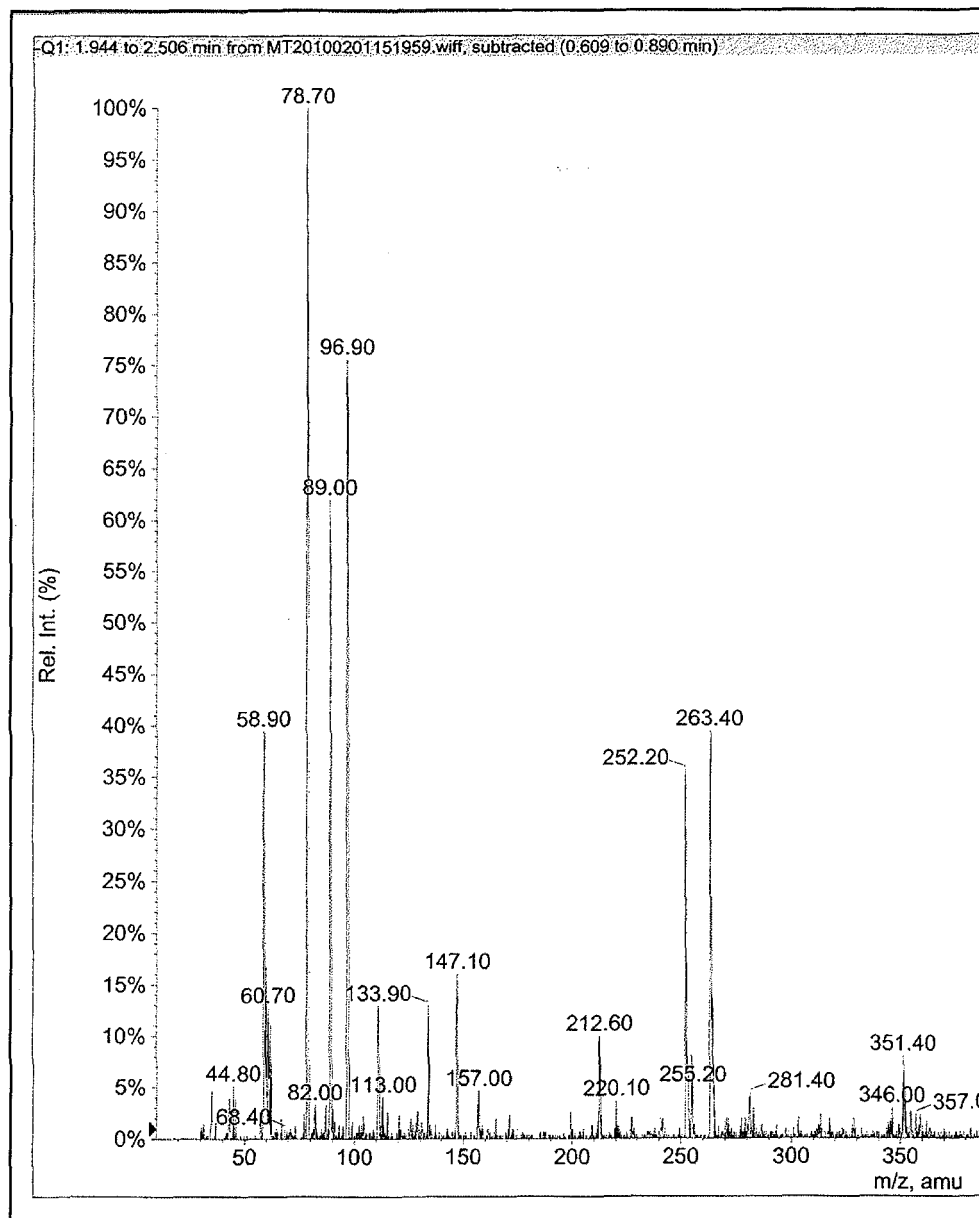
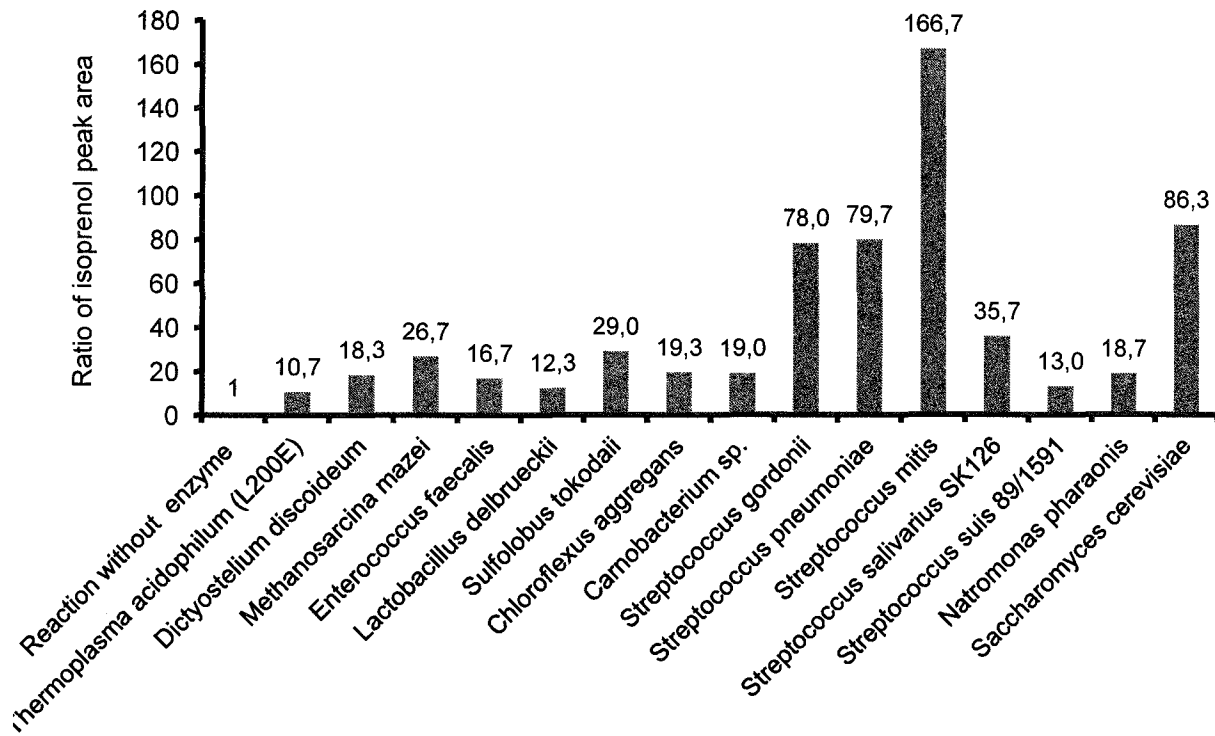
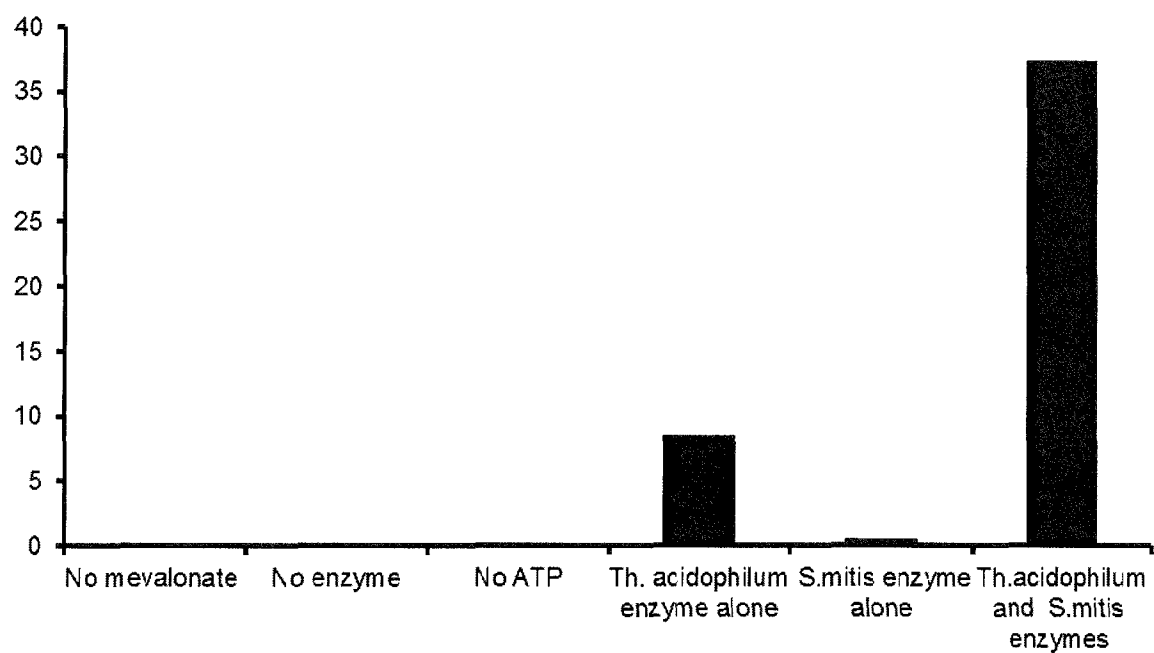


Figure 6b

**Figure 7**

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Isoprenol peak area,
arbitrary units



	Assay composition					
Mevalonate		+	+	+	+	+
ATP	+	+		+	+	+
Th. acidophilum enzyme	+		+	+		+
S. mitis enzyme	+		+		+	+

Figure 8

Relative abundances

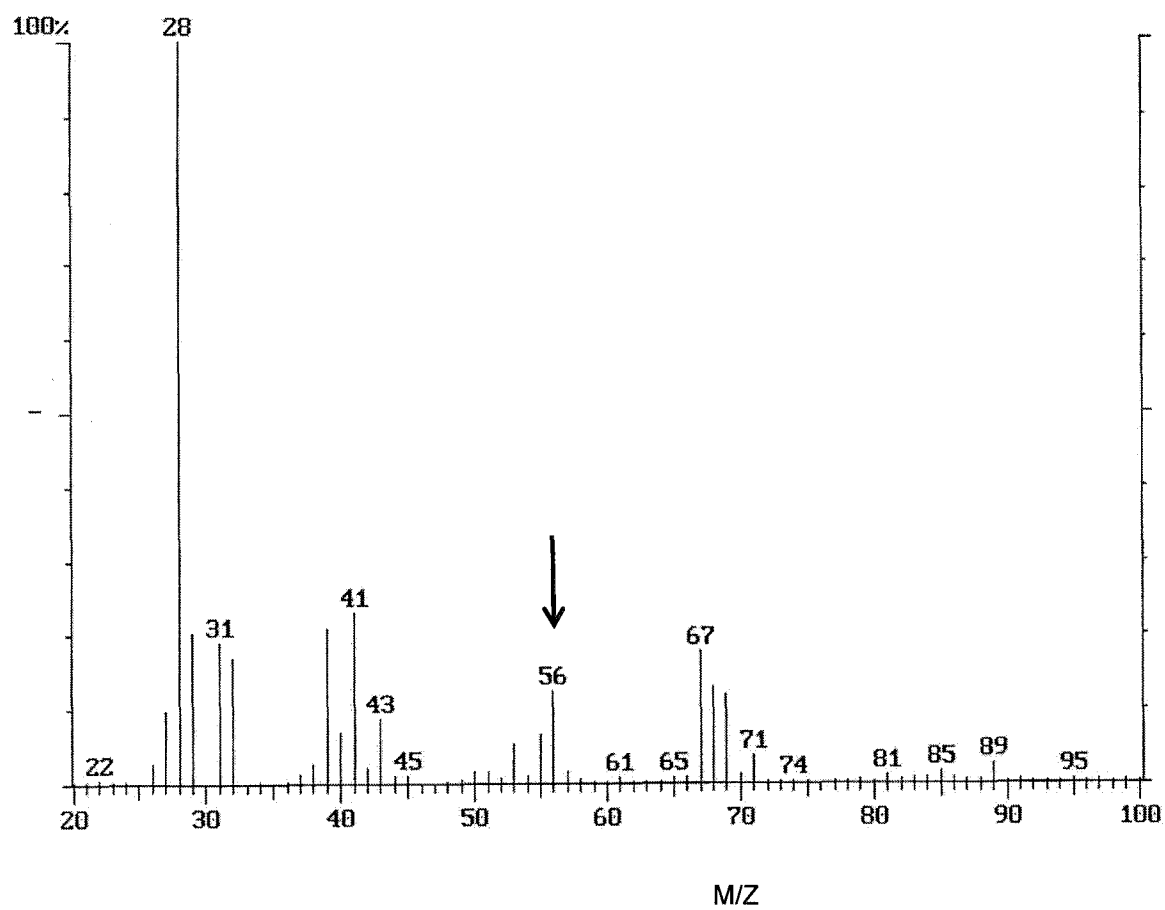


Figure 9a

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Relative abundance

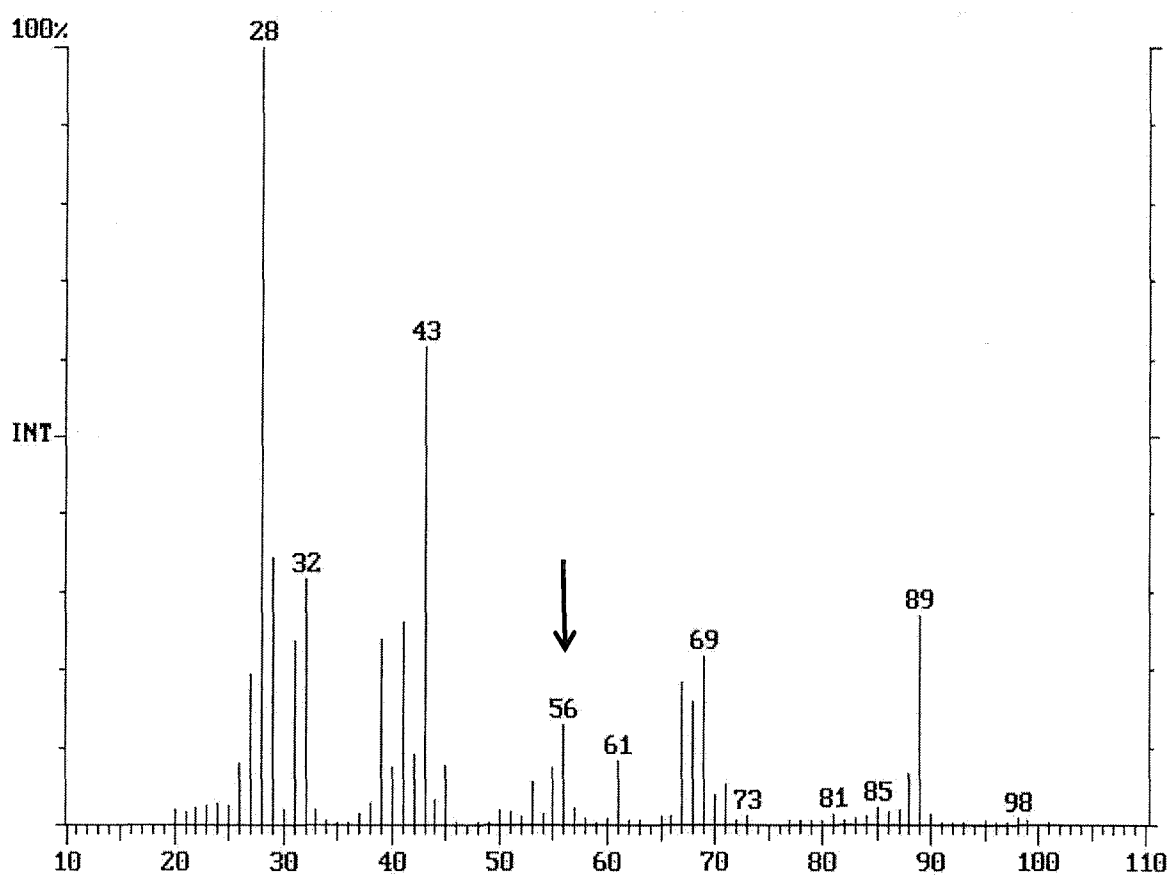


Figure 9b

Rate of isoprenol production, pmol min^{-1}

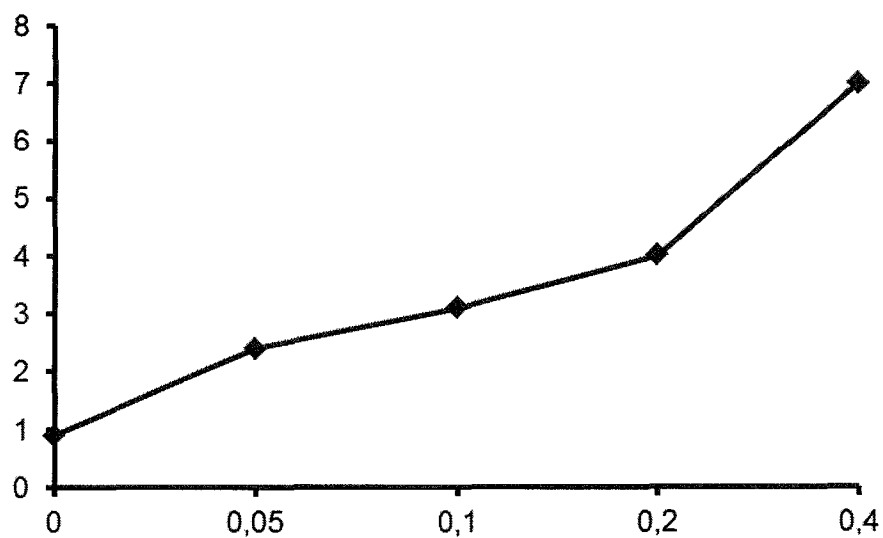


Figure 10

mg MDP decarboxylase S.mitis

Isoprenol peak area, arbitrary units

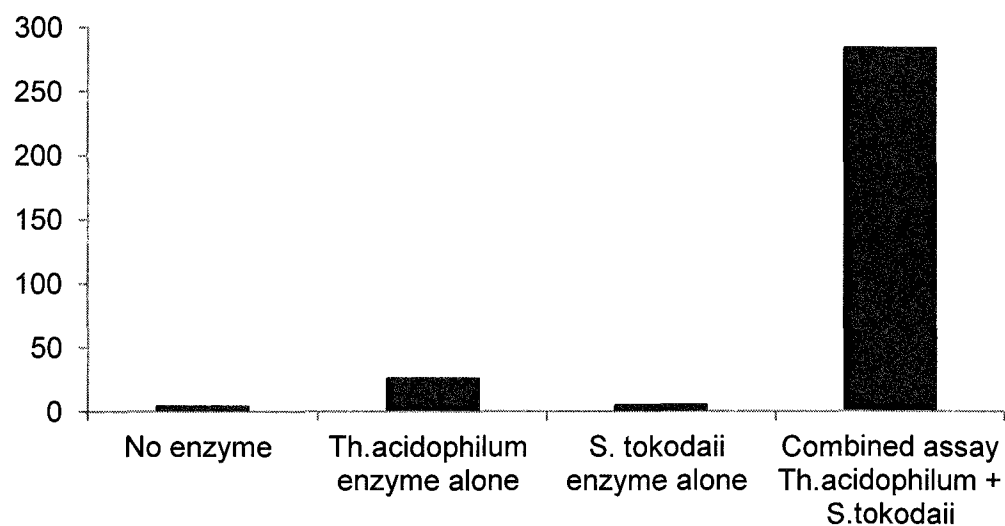
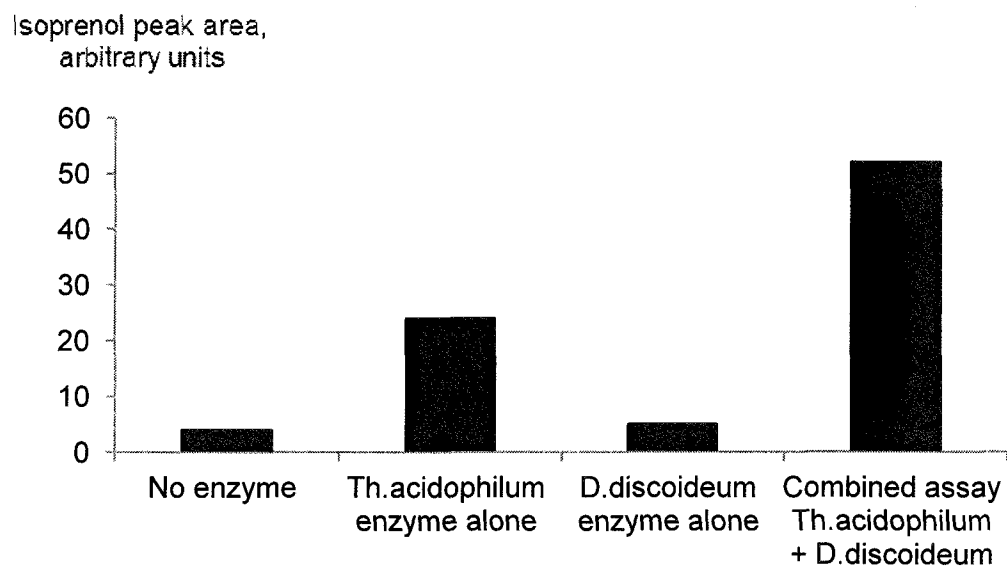


Figure 11

**Figure 12**