

Table S2 Putative compositions of the compounds obtained from the mutant $\Delta CmbesB$ fed with 3-HDA and 3-HOA.

HPLC peaks*	Putative compounds	n	R	L-X	L-Y	D-Z	MW**
Peaks 1	Dm-La	5	H	Phe	Ala	allo-Ile	501
	Dm-L (II)	5	H	Phe	Ala	Leu	501
Peaks 2	Dm-V	3	H	Val	Ala	allo-Ile	425
	Dm-VI	3	H	Val	Ala	Leu	425
	Dm-VII	3	H	Phe	Ala	Val	459
Peaks 3	Dm-III	3	H	Phe	Ala	allo-Ile	473
	Dm-I	3	H	Phe	Ala	Leu	473
Peaks 4	Dm-IX	3	H	Phe	Phe	allo-Ile	549
	Dm-X	3	H	Phe	Phe	Leu	549

*, Peaks are as shown in Fig. 3B. **, MW, molecular weight. Dm, demethyl.