A. Supplementary information

Table S1: Composition of the lipid profiles of the stir tank fermentations.

Fatty acid methyl ester	Crude glycerol / %	Glycerol / %	Adapted feeding / %
Methyl myristate	**0.75**	**0.44**	**0.36**
Methyl myristoleate	**0.00**	**0.00**	**0.00**
Methyl palmitate	**15.55**	**19.99**	**21.20**
Methyl palmitoleate	**0.00**	**0.69**	**0.81**
Methyl stearate	**15.89**	**9.63**	**10.59**
Methyl oleate	**36.66**	**54.58**	**53.29**
Methyl vaccenate	**0.00**	**0.00**	**0.00**
Methyl linoleate	**28.60**	**11.45**	**10.54**
Methyl linolenate	**2.56**	**1.41**	**1.45**
Methyl arachidate	**0.00**	**0.00**	**0.00**
Methyl 11-eicosenoate	**0.00**	**0.00**	**0.00**
Methyl 11-14 eicosadienoate	**0.00**	**0.00**	**0.00**
Methyl arachidonate	**0.00**	**0.00**	**0.00**
Methyl eicosatienoate	**0.00**	**0.00**	**0.00**
Methyl eicosapentaenoate	**0.00**	**0.00**	**0.00**
Methyl behenate	**0.00**	**0.00**	**0.00**
Methyl erucate	**0.00**	**0.00**	**0.00**
Methy lignocerate	**0.00**	**0.00**	**0.00**
Methy docosahexaneoate	**0.00**	**1.81**	**1.76**
Methyl nervomate	**0.00**	**0.00**	**0.00**

Table S2: Composition of the lipid profiles of the pilot scale fermentations.

Fatty acid methyl ester	Main-Fermentation / %	Repeated batch 1 / %	Repeated batch 2 / %	Repeated batch 3 / %
Methyl myristate	**0.53**	**0.46**	**0.38**	**0.35**
Methyl myristoleate	**0.00**	**0.00**	**0.00**	**0.00**
Methyl palmitate	**20.78**	**16.77**	**16.52**	**16.79**
Methyl palmitoleate	**0.42**	**0.34**	**0.33**	**0.29**
Methyl stearate	**14.61**	**14.18**	**13.54**	**15.26**
Methyl oleate	**52.88**	**51.14**	**51.98**	**50.91**
Methyl vaccenate	**0.00**	**0.00**	**0.00**	**0.00**
Methyl linoleate	**7.88**	**12.40**	**12.25**	**10.49**
Methyl linolenate	**0.80**	**1.47**	**1.35**	**0.96**
Methyl arachidate	**0.00**	**0.00**	**0.00**	**0.57**
Methyl 11-eicosenoate	**0.00**	**0.00**	**0.00**	**0.00**
Methyl 11-14 eicosadienoate	**0.00**	**0.00**	**0.00**	**0.00**
Methyl arachidonate	**0.00**	**0.00**	**0.00**	**0.00**
Methyl eicosatienoate	**0.00**	**0.00**	**0.00**	**0.00**
Methyl eicosapentaenoate	**0.00**	**0.00**	**0.00**	**0.00**
Methyl behenate	**0.00**	**0.00**	**0.00**	**0.54**
Methyl erucate	**0.00**	**0.00**	**0.00**	**0.00**
Methy lignocerate	**0.00**	**0.00**	**0.00**	**0.00**

Methy docosahexaneoate	**2.10**	**3.23**	**3.66**	**3.82**
Methyl nervomate	**0.00**	**0.00**	**0.00**	**0.00**