



FAME, C₁₆ – C₂₄

Analysis of fatty acids (as FAME)
of polar glycerolipids and minor
phospholipids in green algae

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Fatty acid composition of polar glycerolipids in green algae *Chlamydomonas moewusii* is determined after TLC purification and FAME derivatization. FAME composition of major glycerolipids and minor phospholipids with specific biological activity can be analyzed.



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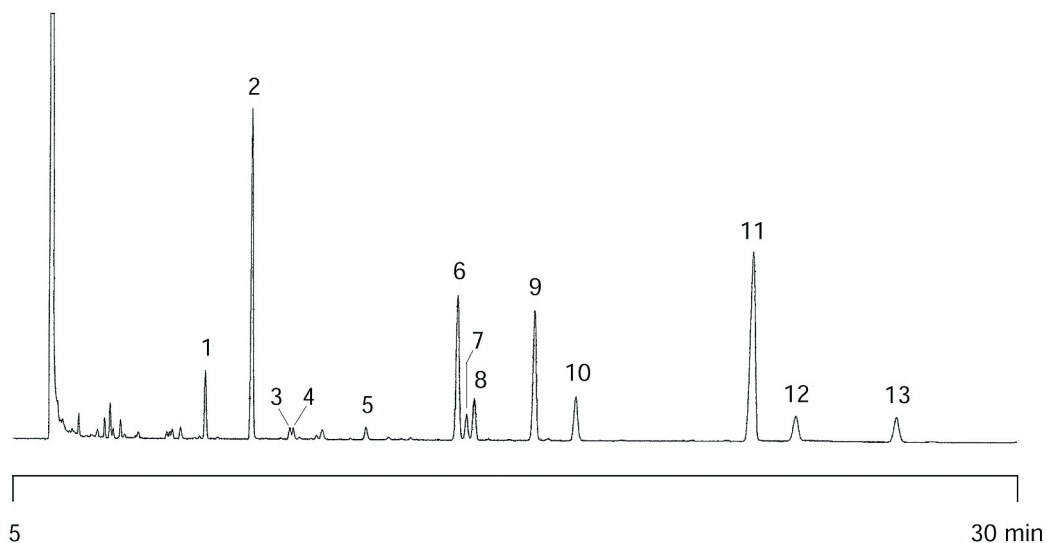
Conditions

Technique : GC-capillary
Column : Agilent CP-Sil 88 for FAME, 0.25 mm x 50 m
(df = 0.2 μ m) (Part no. CP7488)
Temperature : 180 °C
Carrier Gas : N₂
Injector : Split,
T = 250 °C
Detector : FID
T = 270 °C
Sample Size : 1 μ L
Concentration Range : 1 - 250 μ g/mL
Sample Solvent : hexane

Courtesy : Steven Arisz, University of Amsterdam, Institute for
Molecular Cellbiology, Amsterdam, The Netherlands

Peak identification

1. FAME C15:0 (I.S.)
2. FAME C16:0
3. FAME C16:1 3-trans
4. FAME C16:1
5. FAME C16:2
6. FAME C18:1w9
7. FAME C18:1w11 cis
8. FAME C16:3
9. FAME C16:4
10. FAME C18:2
11. FAME C18:3
12. FAME C21:0 (I.S.)
13. FAME C18:4



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