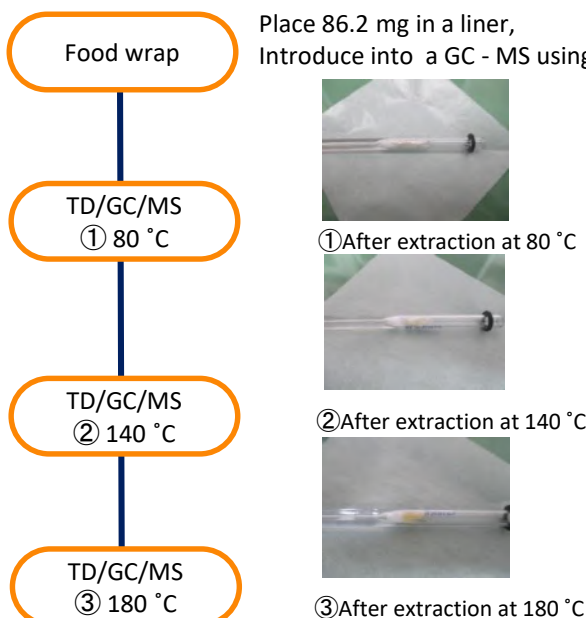


Direct Heating Analysis of Commercial Food Wraps - Using HandyTD Portable Thermal Desorber

Simple heat-extraction analysis of commercial food wraps (heat-resistant temperatures of 140 °C) was performed using a HandyTD.

The wrap was heated directly using a HandyTD and the resulting volatile components introduced into a GC - MS. The results of the analysis showed a large number of observed peaks when the heating temperature rose above 140 °C, with the detection of esterified compounds of hydrocarbons, fatty acids and larger hydrocarbons.

Preliminary processing procedure



Silica wool



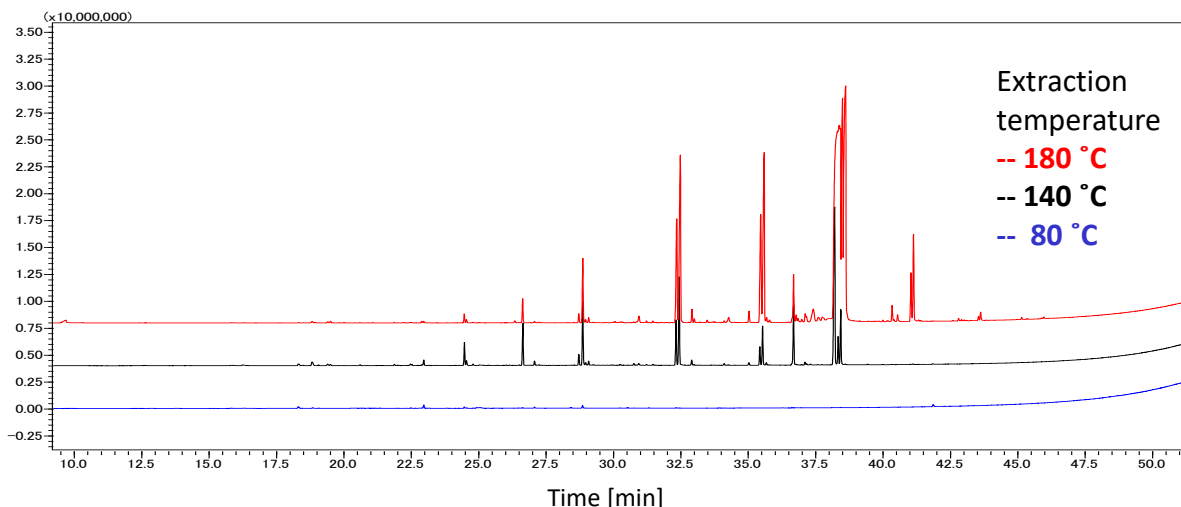
Pre-analysis wrap-tail

GC Conditions

System	: GC - MS - HandyTD TD265
Column	: InertCap 5MS/Sil 0.25 mm I.D. x 30 m, df = 0.25 µm
Col.Cat. No.	: 1010-15142
Col.Temp.	: 40 °C (5 min) - 6 °C/min - 320 °C
Carrier Gas	: He, 0.97 mL/min
GC Inlet	: 300 °C, Split 7:1
Detection	: MS Scan (<i>m/z</i> 29-500)

HandyTD Conditions

Temp.	: ① 40 °C - 45 °C/sec - 80 °C (3 min) ② 40 °C - 45 °C/sec - 140 °C (3 min) ③ 40 °C - 45 °C/sec - 180 °C (3 min)
Press.	: 75 kPa



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GL Sciences, Inc. Japan

22-1 Nishishinjuku 6-Chome
Shinjuku-ku, Tokyo,
163-1130, Japan
Phone: +81-3-5323-6620
Fax: +81-3-5323-6621
Email: world@glsc.co.jp
Web: www.glsciences.com

GL Sciences B.V.

De Sleutel 9
5652 AS Eindhoven
The Netherlands
Phone: +31 (0)40 254 95 31
Email: info@glsciences.eu
Web: www.glsciences.eu

GL Sciences, Inc. USA

4733 Torrance Blvd. Suite 255
Torrance, CA 90503
Phone: 310-265-4424
Fax: 310-265-4425
Email: info@glsciencesinc.com
Web: www.glsciencesinc.com

GL Sciences (ShangHai) Ltd.

Tower B, Room 2003,
Far East International Plaza,
NO,317 Xianxia Road,
Changning District.
Shanghai, China P.C. 200032
Phone: +86 (0)21-6278-2272
Email: contact@glsciences.com.cn
Web: www.glsciences.com.cn

International Distributors

Visit our Website at www.glsciences.com/distributors