

ภาคผนวก ค
ผลการตรวจน้ำมันของเมล็ดทานตะวัน


Test Report 2177926

Date : 24-Feb-2012

Page 1 of 1

Client : Rajamangala University of Technology Thanyaburi
มหาวิทยาลัยเทคโนโลยีราชมงคลธัญบุรี
Klong-Hong, Thunyaburi, Pathumthani 12110 Thailand

The following sample(s) was/were submitted and identified by client as:

Sample Description : น้ำมันเมล็ดพืชมานตะวัน
 Sample No. : 2239283
 Sample Condition : Sample is contained in plastic bottle.
 Date Received : 20-Feb-2012 Date Commenced : 20-Feb-2012

Test Items	Method	Results	Units
Insoluble Impurities	AOCS Ca 3a-46	0.02	%

***** End of Report *****

 Signed for and on behalf of
 SGS (Thailand) Limited



 Siraphat Wasanapongsopon
 Assistant Agr/Food Lab Manager

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รูปที่ ง.1 ผลการตรวจค่าสิ่งอื่นที่ไม่ละลาย (Insoluble Impurities) ของน้ำมันเมล็ดทานตะวัน



Test Report 2176756

Date : 23-Feb-2012

Page 1 of 1

Client : **Rajamangala University of Technology Thanyaburi**
มหาวิทยาลัยเทคโนโลยีราชมงคลธัญบุรี
Klong-Hong, Thunyaburi, Pathumthani 12110 Thailand

The following sample(s) was/were submitted and identified by client as:

Sample Description : น้ำมันเมล็ดทานตะวัน
 Sample No. : 2239283
 Sample Condition : Sample is contained in plastic bottle.
 Date Received : 20-Feb-2012 Date Commenced : 20-Feb-2012

Test Items	Method	LOD	LOQ	Results	Units
Arsenic (As)	Based on AOAC (2005)999.11 999.11	0.05	0.1	Not detected	mg/Kg

Remark : 1. LOD = "Limit of Detection"
 2. Less than = Lower than LOQ "Limit of Quantitation"

End of Report

Signed for and on behalf of
 SGS (Thailand) Limited

Siraphat Wasanapongsopon
 Assistant Agri/Food Lab Manager

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only."

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was/were drawn and/or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the samples' representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) were said to be extracted.

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รูปที่ ง.2 ผลตรวจค่าสารหนู (Arsenic) ของน้ำมันเมล็ดทานตะวัน



Test Report 2178415

Date : 25-Feb-2012

Page 1 of 1

Client : Rajamangala University of Technology Thanyaburi
มหาวิทยาลัยเทคโนโลยีราชมงคลธัญบุรี
Klong-Hong, Thunyaburi, Pathumthani 12110 Thailand

The following sample(s) was/were submitted and identified by client as:

Sample Description : น้ำมันเมล็ดพืชมานหวาน
 Sample No. : 2239283
 Sample Condition : Sample is contained in plastic bottle.
 Date Received : 20-Feb-2012 Date Commenced : 20-Feb-2012

Test Items	Method	Results	Units
Soap Content	AOCS Cc17-95 Cc17-95	34.51	ppm

End of Report

Signed for and on behalf of
 SGS (Thailand) Limited

Siraphat Wasanapongsopon
 Assistant Agri/Food Lab Manager

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 15 days only.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was/were shown and/or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and/or identity made to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) were said to be extracted.

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รูปที่ ๓.3 ผลการค่าปริมาณสบู่ (Soap Content) ของน้ำมันทานตะวัน



Accreditation Number 106542

Test Report



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Report no.: 01551-03937-01
Request no.: 0819/55
Date received: 20 February 2012
Client name: คุณสุภาวดี นพกิจ
Address: มหาวิทยาลัยเทคโนโลยีราชมงคลธัญบุรี 39 หมู่ 1 ถนนรังสิต-นครนายก
 อ.คลองหลวง จ.ธัญบุรี จ.ปทุมธานี 12120

Page 1 of 1

Operation no.: PC 03937
Sample description: น้ำดื่มรสสตรawเบอร์รี่
Sample code: -
Sample condition: in plastic bag Qty: 1 bag(s) Wt./Vol: 400 g/package
Remarks: normal condition
Date tested: 21 February 2012 **Date completed:** 27 February 2012

Test Item(s)	Test method	Acc.	Result	Units	LOD	LOQ
Acid value	AOCS, Cd 3d-63(2005)	-	1.06	mg KOH/g	-	-
Peroxide value	In-house method based on AOAC (2005), 965.33	-	24.70	milliequivalent peroxide/kg	-	-
Copper (Cu)	Modified method based on AOAC (2005), 985.35 (NFI T 965)	-	Not Detected	mg/kg	0.76	-
Lead (Pb)	In-house method based on AOAC (2005), 999.10 (NFI T 9166)	-	Not Detected	mg/kg	0.06	-
Total Aflatoxin	In-house method by Fluorometer based on Vicam Aflatest Instruction Manual, 1997	-	Not Detected	µg/kg	1.00	-
Vitamin E	In-house method by HPLC based on Method of Analysis for Nutrition Labeling (1993), 39.1	-	206.52	mg/kg	-	-
Fatty acid	In-house method based on AOAC (2005), 996.06 (NFI T974)	DMSc				
- Saturated fatty acid			11.87	g/100g	-	-
- Unsaturated fatty acid						
- Monounsaturated fatty acid			23.32	g/100g	-	-
- Polyunsaturated fatty acid			64.74	g/100g	-	-

Note:
 Acc. = ISO/IEC 17025 Accredited
 LOD = Limit of Detection

Tested by Miss Sarisara Worawong

Date reported: 27 February 2012

Approved by



Mrs. Nibaya Pirapobun ngauriya
 Director, Department of Laboratory Services
 Responsible for the Technical Management Team

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รูปที่ ง. ผลการตรวจค่าของกรด (Acid Value), ค่าเปอร์ออกไซด์ (Peroxide Value), ค่าทองแดง (Copper), ค่าตะกั่ว (Lead), ค่าอฟลาท็อกซิน (Aflatoxin), ค่าวิตามินอี,