



F.A.S.T. Laboratories

The First Analytical Services And Technical Cooperative

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F.A.S.T. Laboratories – CDO

Lapasan Hi-way corner Camp Alagar Road CDO City

Reference No. CD1403-0614

Page 1 of 1

TEST REPORT

CUSTOMER : FREYVONNE MILLING SERVICES
 ADDRESS : Lizada, Toril, Davao City
 SAMPLE(S) SUBMITTED : VIRGIN COCONUT OIL
 SAMPLE CODE : CD1403-0614-01
 Date / Time Received : 24 March 2014/ 8:00 AM
 Date Analyzed : 7-11 April 2014
 Date Reported : 14 April 2014

Parameters	Results	Test Method
	VIRGIN COCONUT OIL CD1403-0614-01	
Arsenic, µg/mL	Less than 0.005**	Silver Diethyldithiocarbamate
Lead, mg/L	Less than 0.03*	Atomic Absorption Spectrophotometry
Iron, mg/L	0.07	
Copper, mg/L	Less than 0.01*	

Note: * - Reporting Limit ** - Method Detection Limit

Results are those obtained at time of examination and relate only to the sample(s) tested.

References: Official Methods of Analysis of AOAC International, 18th ed. 2005.

Standard Methods for the Examination of Water and Wastewater, APHA- AWWA, 21st Ed.

ANALYZED BY:

R.L. Thurdis

R.L. THURDIS
Laboratory Analyst

CERTIFIED BY:

R.L. Borres

R.L. BORRES
Laboratory Chemist
Chem. Reg. No. 10488

APPROVED BY:

R.V. Soliva

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Lapasan Hi-way corner Camp Alagar Road CDO CityReference No. CD1403-0613
Page 1 of 1**TEST REPORT**

CUSTOMER : FREYVONNE MILLING SERVICES
 ADDRESS : Lizada, Toril, Davao City
 SAMPLE(S) SUBMITTED : Virgin Coconut Oil (In commercially packed)
 SAMPLE CODE : CD1403-0613-01
 Date / Time Received : 24 March 2014 /08:00 AM
 Date Analyzed : 28 March – 14 April 2014
 Date Reported : 16 April 2014

Fatty Acid Methyl Esters ^a	Results Virgin Coconut Oil CD1403-0613-01	Test Method
Caproic acid (C6:0)	0.7	AOAC No. 996.06 Gas Chromatography
Caprylic acid (C8:0)	8.6	
Capric acid (C10:0)	7.1	
Undecanoic acid (C11:0)	0.03	
Lauric acid (C12:0)	39.8	
Tridecanoic acid (C13:0)	0.04	
Myristic acid (C14:0)	19.3	
Myristoleic acid (C14:1)	No peak detected	
Palmitic acid (C16:0)	9.8	
Palmitoleic acid (C16:1)	No peak detected	
Stearic acid (C18:0)	4.0	
Elaidic acid (C18:1n9t)	No peak detected	
Oleic acid (C18:1n9c)	9.5	
Linolelaidic acid (C18:2n6t)	No peak detected	
Linoleic acid (C18:2n6c)	1.0	
Linolenic acid (C18:3n3)	No peak detected	
Erucic acid (C22:1n9)	No peak detected	
Arachidic acid (C20:0)	0.1	
Cis-11-Eicosanoic acid (C20:1)	0.03	
Arachidonic acid (C20:4n6)	No peak detected	
Cis-5,8,11,14,17-Eicosapentanoic acid (C20:5n3)	No peak detected	
Cis-4,7,10,13,16,19-Docosahexaenoic acid (C22:6n3)	No peak detected	

Note: ^a - Subcontracted to F.A.S.T. Laboratories - Cubao
 Results are those obtained at time of examination and relate only to the sample(s) tested.
 Reference: Official Methods of Analysis of AOAC International, 19th ed., 2012

CERTIFIED BY:

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APPROVED BY:

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**PRODUCT SPECIFICATION****GENERAL INFORMATION**

Revised date:	1/4/2013	Revision No.:	1
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Product name + Commodity N°	Organic Virgin Coconut Oil
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Supplier	name	Primex Coco Products Inc.	
	address: office	4th flr, STK Tower, 881 Aurora Blvd New Manila Quezon City	
	plant site	Bo. Mangilag, Candelaria, Quezon	
	your contact	Mr. Oliver Sio	
	commercially	Ms. Fatima Velasco	
	contact person	Ms. Melba C. Garcia	
	quality		
	phone	632 416 - 2724	
	fax no.	632 727 - 9098	
	e-mail	primex1@pdtel.net	website: www.primexcoco.com

Quality system	The product is prepared in accordance with the cGMP standards.
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PRODUCT CHARACTERISTICS**General**

Origin	Philippines
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Product denomination (legal name)	English	Organic Virgin Coconut Oil
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Product Description	Virgin coconut oil is derived from the kernel of coconut and is obtained by mechanical without the application of heat. It is suitable for human consumption.
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List of ingredients in descending order by magnitude	components	% in the recipe	functionality*	country of origin
	1. Organic DC	100	raw material	Philippines

**PRODUCT SPECIFICATION****Analytical / Organoleptic Values**

Organoleptic		Method used to determine value
colour	Colorless and sediment free	Organoleptical
odour and taste	Natural fresh coconut scent and free from rancid odors and tastes	*

Analytical	Target	Minimum	Maximum	Method used to determine value
moisture			0.20%	AOAC 18 th ed 2005
free fatty acid (as lauric acid)			0.20%	AOAC 18 th ed 2005
peroxide value			3 meq/kg	AOAC 18 th ed 2005
pH value		5.0	8	AOAC 18 th ed 2005

Microbiological	Maximum	Value	Method used to determine value
total plate count	10	cfu / g	BAM 8 th ed Rev A
yeast and mold	50	cfu / g	BAM 8 th ed Rev A
Escherichia coli	Neg.	/ 10 g	BAM 8 th ed Rev A
Salmonella	Neg.	/ 50 g	BAM 8 th ed Rev A

storage conditions	Clean dry and infestation free. (Product is in liquid state above 24 deg C.)
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Primex Coco Products, Inc.

PRODUCT SPECIFICATION

Packaging	Food grade drum or IBC paper (toete bag)
weight per colli	190 kls for drum and 900 kls for IBC paper

Migration Test	Methodology	BFAD Specs
1. UV Examination	With reference to JETRO. Analysis by UV-Vis Spectrometry	
a. Water, 60°C, 30 mins		0.3 Au
b. 20% ethanol, 60°C, 30 mins		0.3 Au
c. 4% acetic acid, 60°C, 30 mins		0.3 Au
d. n-Heptane, RT, 1 hr		0.1Au
2. Residue on Evaporation	With reference to JETRO. Analysis by Gravimetric Method	
a. Water, 60°C, 30 mins		30 ppm
b. 20% ethanol, 60°C, 30 mins		30 ppm
c. 4% acetic acid, 60°C, 30 mins		30 ppm
d. n-Heptane, RT, 1 hr		150 ppm
3. Potassium Permanganate Consumption	With reference to JETRO. Analysis by Titrimetric Method	10 ppm
4. Lead (Pb)	With reference to JETRO. Analysis by Atomic Absorption Spectrometry (AAS)	0.4 ppm
5. Cadmium (Cd)		0.1 ppm

Physical form (e.g. powder, liquid)	liquid
shelf life	max. 12 months under below mentioned conditions in closed packaging
storage conditions	Cool, dry and out of direct sunlight. Temp. < 15°C RH < 70%

GMO declaration

Does the product or components hereof, contain GM micro-organisms or is it produced with GM micro-organisms (incl. processing aids and additives.)	<input checked="" type="checkbox"/>	no	
	<input type="checkbox"/>	yes	specifically.