

May 2019

SALES KIT

Fallaleaf Natural Dinnerware & Bakeware

Manufactured and Distributed by

Jesa Enterprise Sdn Bhd (1023641-D)

www.fallaleaf.com

JESA ENTERPRISE SDN BHD

“Pokok Pinang” also known as Areca Catechu which have grown across south east asia are among the best known and most extensively cultivated plant families. With the use of new technology and research, we have cultivated a product not only used by our fore fathers but for a more sustainable and green living!



MISSION STATEMENT

“Fallaleaf strongly believes in creating sustainable product that leaves no print”.



OUR FOUNDER

Ayamany Sinakalai is the founder of Jesa Enterprise Sdn Bhd. He was born in Melaka, Malaysia. Being involved in community service from a very young age created the foundation for his ideology of green living. He was a judge in the panel for Local Agenda 21 (LA 21) in MBPJ. His involvement in LA 21, which is a sustainable development programme for the community. This was a key factor in motivating his research into creating Fallaleaf Natural Dinnerware. The lessons he learned about sustainable development also served as catalyst to reaching the successful solution to a serious environmental problem.



To truly create a sustainable method of sourcing and producing Fallaleaf Natural Dinnerware, I have travelled around the country finding landscapes, plantations and farmers that cultivate these trees knowing these leaves are being otherwise burned causing pollution or abandoned that end up storing dirty rain water that mosquitos breed causing malaria or dengue.

I was determined to create a side income for all the small holders by creating a system where the leaves are stored at their local religious and community halls; mosques, temples etc.

Each part of this business chain is profited sustainably and traded fairly.

"Each part of this business chain is profited sustainably and traded fairly".

DESCRIPTION OF RAW MATERIAL

The applicable areca species for the production of this natural dinnerware are Areca Catechu, which can be found in most of Southeast Asia. Fallaleaf dinnerware & bakeware are made from the sheath of the plant which is hand picked after it naturally falls to the ground.



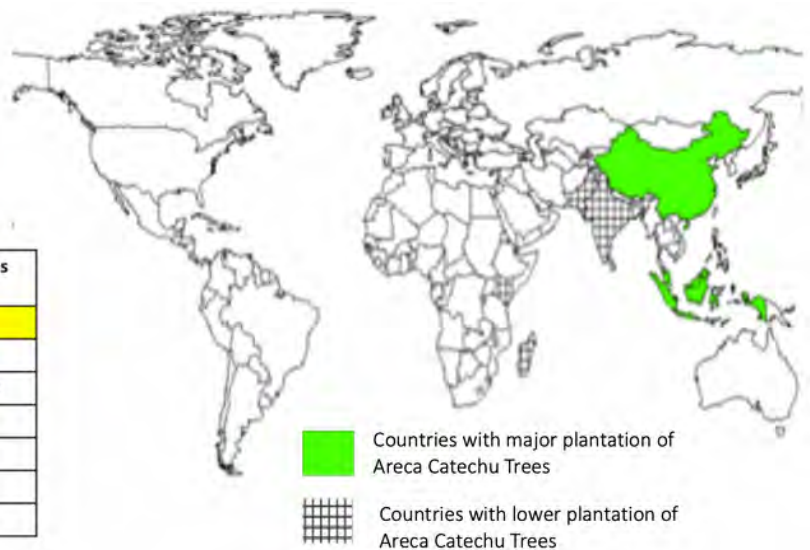
RAW MATERIAL SOURCE

Areca Catechu is one of the prominent commodities in Southeast Asia. The nut has been a business of import and export for years. Table below describes the major producers of the nut based on the year 2003.

- 1 tree approx. produces 9-12 sheaths per year
- 1 tree Lifespan of 65-85 years old (approx.)
- 1 sheath approx. produces 2-3 plates

Country cultivating Areca Palm	Hectares	Total Trees	Total sheaths (per year)
Malaysia	800	988,000	8,892,000
Indonesia	36000	44,460,000	400,140,000
India	290000	358,150,000	3,223,350,000
China	88000	108,680,000	978,120,000
Myanmar	77296	95,460,560	859,145,040
Bangladesh	50700	62,614,500	563,530,500
Thailand	17000	20,995,000	188,955,000

(Data from <http://crnindia.com/commodity/arecanut.html>)



COMMON USES OF ARECA TREES



Uses:

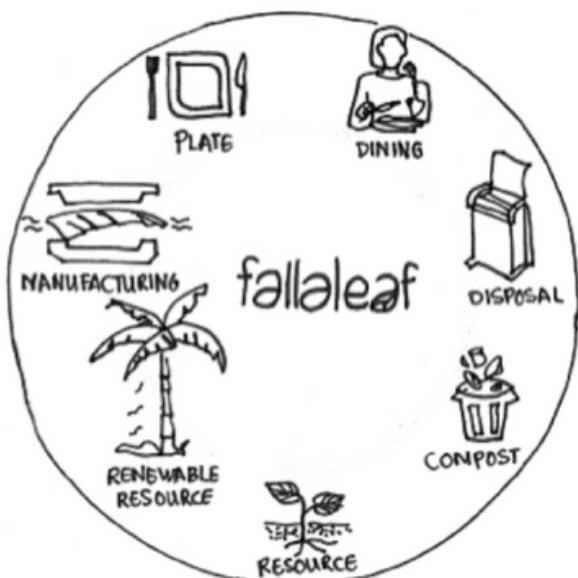
- Packing local food and desert delicacies; Dodol
- 'Tarik Upih' local children game
- Tannins (Natural colouring agent)
- Husk (mulching and manure)



Other uses:

- Fats (edible fat); toothpaste and chewing gum
- Betel Quid (consumption as a mouth freshener)
- Medicinal Uses; astringent and used in the treatment of leucoderma, leprosy, cough, fits, worms, anaemia and obesity

CLOSED LOOP SYSTEM



FALLALEAF GOODNESS



Natural & Chemical Free



Microwave and Oven Safe



Renewable Raw Material



Plates Natural Pattern & Colour



Hot or cold, anything can be served in Fallaleaf



























AWARDS & CERTIFICATIONS

- Star Outstanding Business Awards 2018, consolation
- SME Corp 4 Star Rating for Enhancement Manufacturing & Mrs
- Dr. Graner & Partner GmbH -Germany Test Report. (DDT Free)- for Europe Market
- Certified Logo Buatan Malaysia (Made and sourced locally in Malaysia)
- SIRIM test Report for Food Safety (Compliance achieved)
- Fallaleaf Trademark certification (MYIPO)
- Patent - Disposable Biodegradable Article and Method of Manufacturing MY-158774-A

OUR CUSTOMERS

























PRODUCTS

No	Product Image			Size Length x Width x Depth (cm)	Product Description
1				15 x 15 x 2	6" Round Classic Plate
2				23 x 23 x 2	9" Round Classic Plate
3				25 x 25 x 2.5	10" Round Classic Plate
4				30 x 30 x 2.5	12" Round Classic Plate
5				10 x 10 x 5	250ml Round Bowl
6				13 x 13 x 5	500ml Round Bowl
7				15 x 15 x 2	6" Square Classic Plate
8				23 x 23 x 2	9" Square Classic Plate
9				14 x 14 x 2	300ml Square Bowl

PRODUCTS

No	Product Image			Size Length x Width x Depth (cm)	Product Description
10				17 x 17 x 4	600ml Square Bowl
11				24 x 15 x 2	9"x6" Rectangle Tray
12				24 x 15 x 3.5	9"x6" Rectangle DEEP Tray
13				25.5 x 18 x 3	10"x7" Rectangle
14				12.5 x 10.5 x 3.8	Heart Shape Pan
15				16.5 x 10 x 4	Leaf Shape Pan
16				12 x 10.0 x 4.5	Crystal Muffin
17				13.5 x 13.5 x 2.5	Round Pie Pan
18				10 x 10 x 4.5	Round Muffin

PRODUCTS

No	Product Image			Size Length x Width x Depth (cm)	Product Description
19				9.5 x 9.5 x 4.5	Square Muffin
20				8 x 8 x 3.5	Round Cupcake
21				9.5 x 9.5 x 4.5	Square Cupcake
22				20 x 11 x 5	Loaf Pan
23				21 x 21 x 5	Square Cake Pan
25				8 x 8 x 2	Condiment Tray (Square)
26				8.5 x 8.5 x 2	Condiment Tray (Triangle)
27				7.5 x 7.5 x 2	Condiment Tray (Pentagon)

AUDIT REPORT

File Information

File No.	: P5-012626
File Status	: Pre-Certification
Product	: BIOMASS BASED PRODUCTS FOR FOOD-CONTACT APPLICATIONS
Standard	: SIRIM ECO 009 : 2016
Customer Code	: 12001856
Customer Name	: JESA ENTERPRISE SDN. BHD.
Customer Address	: NO. 1, JALAN INDUSTRI PBP TAMAN PERINDUSTRIAN PUSAT BANDAR PUCHONG 47100, PUCHONG SELANGOR, MALAYSIA
Customer Representative	: KARTIGHA A.

Manufacturer Information

Manufacturer Name	: JESA ENTERPRISE SDN. BHD.		
Manufacturer Address	: NO. 1, JALAN INDUSTRI PBP TAMAN PERINDUSTRIAN PUSAT BANDAR PUCHONG 47100, PUCHONG SELANGOR, MALAYSIA		
Manufacturer Representative	: KARTIGHA A.		
Job No.	: J201809-447		
Job Type	: Initial Inspection	Date of Audit Report	: 27/09/2018
Job Auditor	: SITI AISHAH BT YAACOB		
Job Start Date	: 27/09/2018	Job Start Time	: 10:00
Job End Date	: 27/09/2018	Job End Time	: 16:30

Product Audit Information

Item	Observations
Raw material	100% areca palm sheath. Acceptance of the raw material is based in-house inspection done on every piece.
Formulation	Biomass source: 100% areca palm sheath.
Manufacturing process	Incoming raw material --> Washing--> Drying with steam and warm water blower --> Moulding --> Ultraviolet Irradiation --> Packaging. The manufacturing facilities and process is found well established to ensure compliance with the requirements.
Finished product	Trade Mark: FALLALEAF Model: DINNERWARE Type: BIODEGRADABLE, COMPOSTABLE Rating: BIOMASS - ARECA PALM SHEATH (UPIH PINANG) Size: THICKNESS (mm) : 3.5 max

Marking Requirements

Marking Compliant	: YES
Remark	: -
Method of Marking	: Trademark is moulding on product while the other information e.g factory address was printed on leaflet.

Record Observations

Record	Observations
Incoming	Satisfactorily recorded in Raw Material Record and Stock.
In process	Satisfactorily recorded in Daily Production Record and Quality Rework and Reject.
Final	Satisfactorily recorded in Daily Production Quantity Record.
Customer complaint	At is noted that the company does not have a procedure of handling or addressing complaints from customers. However since there have been no complaints received, at the moment the company does not need to address the issue. Nevertheless the company has been



SIRIM QAS International Sdn.Bhd. (410334-X)
No.1, Persiaran Dato' Menteri, Section 2, P.O. BOX 7035
40700 Shah Alam, Selangor Darul Ehsan, Malaysia.
Tel: 03-55446030/40
Fax: 03-55446039
www.sirim-qas.com.my

TEST REPORT

REPORT NO.: 2018PC0888

PAGE : 1 OF 7

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Applicant : INDUSTRIAL & CONSUMER CERTIFICATION SECTION
PRODUCT CERTIFICATION AND INSPECTION DEPARTMENT
(Attn: Puan Siti Aishah Bt Yaacob)

Manufacturer : JESA ENTERPRISE SDN BHD
No. 1, Jalan Industri PBP
Taman Perindustrian Pusat Bandar Puchong
47100 Puchong
Selangor

Product : Biomass Based Products for Food-Contact Applications

Reference Standard/
Method of Test : 1. ASTM E1252:1998 (Reapproved 2013)^{e1} - Standard Practice for
General Techniques for Obtaining Infrared Spectra for Qualitative
Analysis
2. SIRIM Eco-Labeling Scheme – Reference No.: 009 (Issue Date:
June 2008) – Criteria Document for Tableware from Biomass

Description of Sample : Received six (6) pieces of sample for testing on 2 October 2018 (see
Figure 1 in Page 2 of this report for photograph of the sample).
Trademark : Fallaleaf
Model : Dinnerware (9" x 6" Rectangle Deep)
Type : Biodegradable, Compostable
Rating : Biomass – Areca Palm Sheath (Upih Pinang)
Size : Thickness (mm) : 3.5 max

Date Received of
Complete Application : 12 December 2018

Job No. : J20181460730

Description of Test
Results : The test results of the submitted test samples are described in Pages
3 to 7 of this test report.

Issued Date : 20 December 2018

Approved Signatories:

(Ir. Zarina Rasmin)
Senior Consultant



(Rahmad Abd Shukor)
Head
Plastics and Composite Materials Section
Testing Services Department

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Description of Sample:



Figure 1. Photograph of 'Biomass Based Products for Food-Contact Applications; Trademark: Fallaleaf' Sample



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Results:

Biomass Based Products for Food-Contact Applications

Trademark : Fallaleaf
Model : Dinnerware (9" x 6" Rectangle Deep)
Type : Biodegradable, Compostable
Rating : Biomass – Areca Palm Sheath (Upih Pinang)
Size : Thickness (mm) : 3.5 max

NO.	TEST	RESULT	TEST METHOD
1	Fourier Transform Infra-Red (FTIR) Analysis <ul style="list-style-type: none"> • Main functional group(s) in the sample • Most matching spectrum 	OH...O, CH ₂ C=C and C-O Cellulose-based material* (see Figures 2 and 3)	ASTM E1252 Scan Method: Using Attenuated Total Reflection (ATR) accessory Scan range: 4000 cm ⁻¹ to 600 cm ⁻¹ Number of scan: 16 times Date of test: 14 December 2018

*Note: A structural polysaccharides found in plant



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Results (continued):

Biomass Based Products for Food-Contact Applications

Trademark : Fallaleaf
Model : Dinnerware (9" x 6" Rectangle Deep)
Type : Biodegradable, Compostable
Rating : Biomass – Areca Palm Sheath (Upih Pinang)
Size : Thickness (mm) : 3.5 max

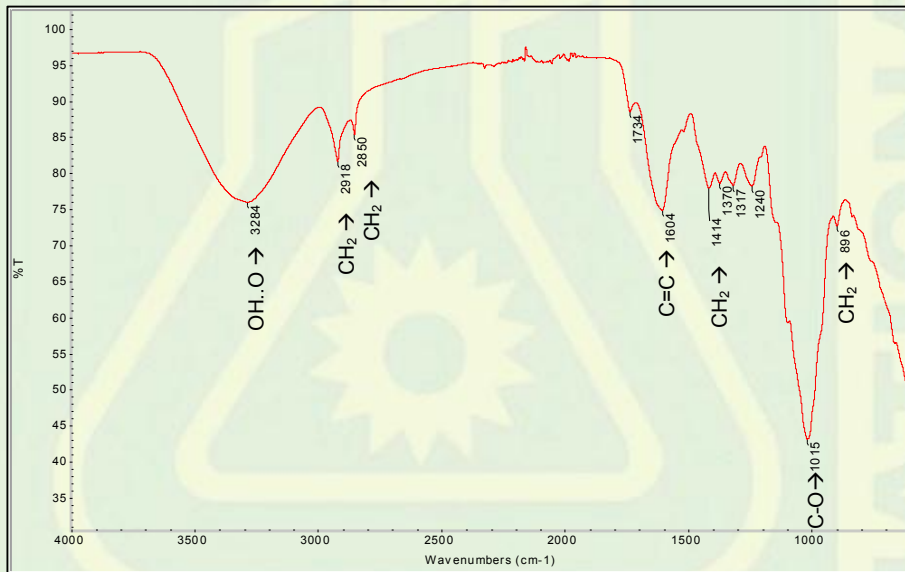


Figure 2. FTIR Spectrum of 'Biomass Based Products for Food-Contact Applications; Trademark: Fallaleaf' Sample

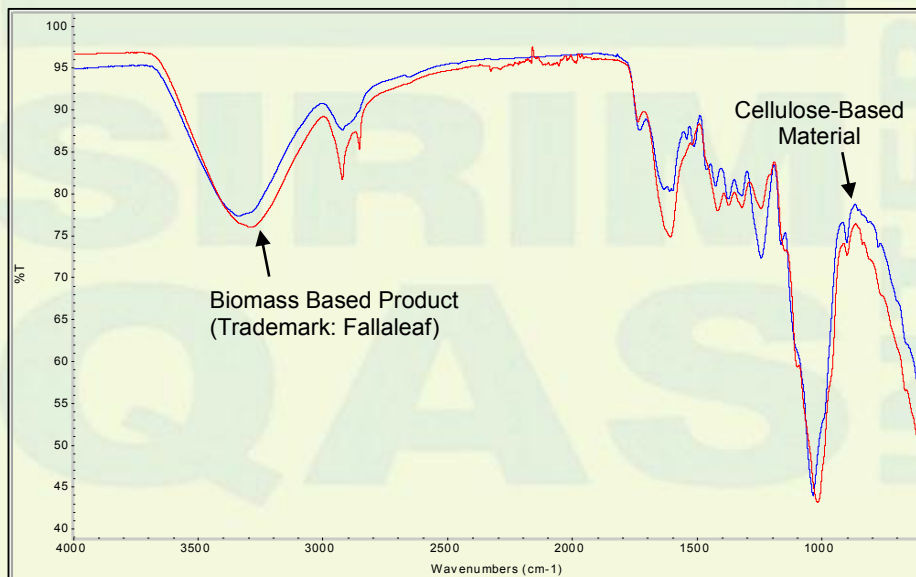


Figure 3. Overlaid FTIR Spectra of 'Biomass Based Products for Food-Contact Applications; Trademark: Fallaleaf' Sample with Reference Cellulose-Based Material



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Results (continued):

Biomass Based Products for Food-Contact Applications

Trademark : Fallaleaf
Model : Dinnerware (9" x 6" Rectangle Deep)
Type : Biodegradable, Compostable
Rating : Biomass – Areca Palm Sheath (Upih Pinang)
Size : Thickness (mm) : 3.5 max

NO.	TEST	RESULT	TEST METHOD/REQUIREMENT
2	Oil and water proof at raised temperature i. Test using distilled water ii. Test using cooking oil	No penetration of distilled water was observed on the sample after test (see Figure 4a). No penetration of cooking oil was observed on the sample after test (see Figure 4b). (Pass)	One (1) piece each of sample was charged with approximately 5 ml of distilled water and cooking oil respectively and placed inside an oven that has been set at 60°C for 30 minutes. <u>Requirement as stated in Clause 5.1 of SIRIM Criteria 009 : 008</u> <i>The tableware shall not permit oil and grease, moisture or small amount of water to penetrate at 60°C for 30 minutes.</i>
3	Acid Resistance	No discoloration, surface defects, distortion and leakage were observed on the test specimens tested (see Figure 5). (Pass)	Two (2) pieces of sample were each charged with approximately 5 ml of 3% acetic acid solution and left at room temperature for 2 hours <u>Requirement as stated in Clause 5.2 of SIRIM Criteria 009 : 008</u> <i>The plate shall be resistant to acidic foodstuff (3% acetic acid) for 2 hours and there shall be no discoloration, defects, distortion and leakage for all the test specimens.</i>



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Results (continued):

Biomass Based Products for Food-Contact Applications

Trademark : Fallaleaf
Model : Dinnerware (9" x 6" Rectangle Deep)
Type : Biodegradable, Compostable
Rating : Biomass – Areca Palm Sheath (Upih Pinang)
Size : Thickness (mm) : 3.5 max



(a) Sample in Contact with Distilled Water at 60°C for 30 minutes



(b) Sample in Contact with Cooking Oil at 60°C for 30 minutes

Figure 4. Photographs of 'Biomass Based Products for Food-Contact Applications; Trademark: Fallaleaf' Sample after Oil and Water Proof at Raised Temperature Test



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Results (continued):

Biomass Based Products for Food-Contact Applications

Trademark : Fallaleaf
Model : Dinnerware (9" x 6" Rectangle Deep)
Type : Biodegradable, Compostable
Rating : Biomass – Areca Palm Sheath (Upih Pinang)
Size : Thickness (mm) : 3.5 max



Figure 5. Photograph of 'Biomass Based Products for Food-Contact Applications; Trademark: Fallaleaf' Sample after Acid Resistance Test



CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the Sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the Sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass produced Product.
2. The Test Report shall not be amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Managing Director of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
5. Customer (Applicant/Manufacture/Factory, etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, brochures/flyers or any other means without the prior written approval from the Managing Director of SIRIM QAS International.
6. If such approval is obtained from the Managing Director of SIRIM QAS International, the Applicant may only include the phrase, "A sample of this product has been tested by SIRIM QAS International ... (Test Report No) ... (dated) (for what test) ... (to which standard)" or such similar words which stress that only the Sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures). For avoidance of doubt, the statement shall not be used on the sample and packaging of the sample.
7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
8. Further or in the alternative, it is strictly forbidden unless with prior written approval from the Managing Director of SIRIM QAS International, to represent in any manner whatsoever that SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.
9. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
 - a) Informing and placing a notice in the media;
 - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
 - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
 - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
 - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. Certified true copies of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.
11. Corrections to test report shall only be allowed within 6 months from issuance date of the test report and shall be limited to maximum 3 times, after either case whichever occurs earlier, a new test report shall be issued and replace the previous one (having error(s) or lack of information). Issuance of Supplementary Report to the original Test Report shall be for the followings;
 - a) Misprints and typo errors
 - b) Missing technical information
 - c) Test data not reported
 - d) Mistake in reporting of test data

TEST REPORT

REPORT NO. : 2012KL1656

PAGE : 1 OF 2

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Applicant : JESA ENTERPRISE SDN. BHD.
No. 12A-1, Jalan Puteri 2/5,
Bandar Puteri,
47100 Puchong,
Selangor D.E

Product : Palm Leaf Plate

Reference standard / : 1) Malaysian Food Act 1983 (Act 281) and Regulations (as at
Method of test 24th September 2012)
2) Inductively Coupled Plasma-Optical Emission Spectrometry
(ICP-OES) Technique.

Description of sample : Received one (1) sample for testing with the following identification :
Product : Palm Leaf Plate
Brand : FALL LEAF

Date received : 23rd November 2012

Job No. : J20121301575

Issue date : 29th November 2012

Approved Signatory



(ROHAIDAH IBRAHIM, AMIC)
IKM A/1700/3994/99
Senior Technical Executive



(HAHNAS MAHBUT)
Head
Chemical & Consumer Section (CEST)
Testing Services Department
SIRIM QAS International Sdn. Bhd.

TEST REPORT

REPORT NO. : 2012KL1656

PAGE : 2 OF 2

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Test Results

Product : Palm Leaf Plate
Brand : FALL LEAF

Test Procedure :

The sample was washed with water containing detergent and rinsed with clean water. The sample was then soaked in the leaching solution (4% acetic acid in distilled water, volume/volume) at room temperature for 24 hours. After the period of 24 hours, the leaching solution was taken for analysis.

No.	Type of Tests	Methods Used	Requirements based on Malaysian Food Act 1983 (Act 281) and Regulation (as at 24 th September 2012) ⁽¹⁾	Test Results	Remarks
1.	Antimony (Sb), ppm	ICP-OES	0.2 maximum	Less than 0.002 ⁽²⁾	Complied
2.	Arsenic (As), ppm	ICP-OES	0.2 maximum	Less than 0.004 ⁽²⁾	Complied
3.	Cadmium (Cd), ppm	ICP-OES	0.2 maximum	Less than 0.0004 ⁽²⁾	Complied
4.	Lead (Pb), ppm	ICP-OES	2.0 maximum	Less than 0.006 ⁽²⁾	Complied

Note : ¹⁾ Thirteenth Schedule (Regulation 28) all amendment up to 24th September 2012

²⁾ Detection limit is the minimum concentration of analyte that can be detected by the instrument.


ROHAIDAH IBRAHIM, AMIC
(IKM A/1700/3994/99)
Senior Technical Executive
Chemical & Consumer Section
SIRIM QAS International Sdn. Bhd.

Leaf republic GmbH
Mehlbeerenstr. 6

82024 Taufkirchen

Analysis Report 1820527-2

Client: See above

Object of analysis: **Palm leaf plate shells**

manufacturer: JESA ENTERPRISE SDN BHD

ADDRESS: NO 1, JALAN INDUSTRI PBP 9, TAMAN
INDUSTRI PUSAT BANDAR PUCHONG, 47100, PUCHONG,
SELANGOR, MALAYSIA

Sample collection: client

Date of receipt: 23.04.2018

Period of analysis: 23.04. – 27.04.2018

Method: Determination of DDT and Metabolites in materials (GC
according to SAA U150)

Specification: n.s.

***external processing of orders**

The measurement accuracy in the standards is being adhered to. The results exclusively refer to the objects of analysis stated in the report. The report may not be reproduced in whole or in part by any means without prior permission of the analyzing laboratory. Improper sample vessels can cause distortions of the measurement result. The analyses of mixed samples below the limit may although cause exceedances of limit value of one or more sub-samples. To verify the limit value to ensure safe, it is advised to test the individual samples according to the test specification. Microbiological material is being destroyed right after the analysis. If in the method of microbiological testing a reference of the in-house validation is missing, then this method was not validated by Dr. Graner & Partner GmbH.

Akkreditiertes Prüflabor nach DIN EN ISO 17025 · D-PL-18601-01-00

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Abgrenzungsfragen AMG/LFBG

Amtsgericht München Nr. 84402, Geschäftsführer: Dr. Manfred Holz
Bankverbindung: Dresdner Bank AG (BLZ 500 800 00) Kto.-Nr. 928 398 500
Genossenschaftsbank Aubing eG (BLZ 701 694 64) Kto.-Nr. 69922
BIC: GENODEFIM07, IBAN: DE30 7016 9464 0000 0699 22

Analysis report 1820527-2

Object of Analysis: Palm leaf plate shells

Result:

Number of analysis 1820527	Total DDT* [mg/kg]	LOQ*** [mg/kg]
-2: 02-Malaysia	b.l.q.**	0.5

* total amount of DDT and the metabolites DDD and DDE

** b.l.q.: below limit of quantitation

*** LOQ: Limit of Quantitation

DDT and the metabolites DDD and DDE are also not detectable. (< 0.05 mg/kg)

Dr. Graner & Partner GmbH



M. Müller
(state approved food chemist)

