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**REGIONE DEL VENETO**

giunta regionale

DIPFSA
SIOM

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Oggetto: esportazione prodotti alimentari a Taiwan

TELEFAX

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26 GIU. 2013		
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Tit.....	F. Cl. 5	

Ai Signori Responsabili dei Servizi Igiene
Alimenti e Nutrizione delle Az. ULSS del
Veneto

Ai Signori Responsabili dei Servizi Veterinari
delle Az. U.L.S.S. del Veneto

Al Ministero della Salute:
Dipartimento della sanità pubblica
veterinaria, della sicurezza alimentare e
degli organi collegiali per la tutela della
salute

Direzione generale per l'igiene e la sicurezza
degli alimenti e della nutrizione:

Ufficio: IX ex DGSAN

LORO SEDI

Si trasmette l'allegata comunicazione mail ricevuta dal Ministero della Salute e inerente quanto fatto pervenire dall'Ufficio di Rappresentanza di Taipei In Italia relativamente ai controlli che le Autorità sanitarie di Taiwan effettuano sugli alimenti per la ricerca di anidride maleica e di acido maleico.

Per i prodotti alimentari destinati all'esportazione verso Taiwan deve essere compilata l'attestazione di garanzia da parte dell'esportatore riguardo all'assenza di acido maleico nel prodotto.

La comunicazione del Ministero della Salute contiene numerosi files che verranno inviati agli indirizzi di posta elettronica di codesti servizi in possesso dello scrivente.

Distinti saluti.

IL DIRIGENTE REGIONALE
Dott. Giorgio Caster

Servizio Sanità Animale e Igiene Alimentare
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Dirigente:
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UNITÀ DI PROGETTO VETERINARIA

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Fiorenza Anfuso

Da: Cannistraci Rosalia [r.cannistraci@sanita.it]
Inviato: mercoledì 19 giugno 2013 13.09
A: Abruzzo-Bucciarelli; Abruzzo-Torlontano; Basilicata-Salvatore; Bolzano; Calabria-Anastasio-Area C (farmacovigilanza, benessere, mangimi); Calabria-Arighi-Area B (alimenti origine animale); Calabria-Task force Veterinaria; Campania; Campania-Sarnelli; Campania-Toto; Emilia Romagna AUSL; Emilia Romagna-Pierantoni; Emilia Romagna-Squintani; Friuli-Palei; Friuli-Zuttion; Lazio-Della Marta; Lazio-Marciano; Liguria-Alimenti veterinaria; Liguria-Igiene pubblica; Liguria-Secco; Lombardia-Castoldi; Lombardia-Frazzi; Marche; Marche-Daurizio; Molise-Dimuzio; Molise-Rossi; Piemonte-Corgiat; Piemonte-Lucignani; Piemonte-Prevenzione veterinaria; Puglia-Mongelli; Sardegna; Sicilia-Curcio; Sicilia-Schembri; Toscana-Balocchini; Toscana-Baronti; Trento-Costanzi; Umbria-Cives; Valle d'Aosta; Alessandra Amorena; Fiorenza Anfuso; Giorgio Cester; Silvio Pittui; Saia
Cc: Noè Pietro; Giganti Donato Antonio; Ciorba Anna Beatrice
Oggetto: comunicazione dell'Ufficio di Rappresentanza di Taipei in Italia
Allegati: FDA_certificazione.pdf; 1027012509-3.pdf; 1027012509-7.docx; 1027012509-8.pdf; 1027012509-9.pdf; Allegati_laboratori.pdf; Lettera.pdf

Si trasmette l'allegata documentazione inoltrata allo scrivente dall'Ufficio di Rappresentanza di Taipei in Italia relativamente ai controlli che le Autorità sanitarie di Taiwan effettuano sugli alimenti per la ricerca di anidride maleica e acido maleico.

Pertanto, si precisa che, per i prodotti alimentari destinati all'esportazione verso Taiwan deve essere compilata l'attestazione di garanzia da parte dell'esportatore riguardo all'assenza di acido maleico nel prodotto.



Ministero della Salute

Dipartimento della sanità pubblica veterinaria, della sicurezza alimentare e degli organi collegiali per la tutela della salute
 Direzione Generale per l'igiene e la sicurezza degli alimenti e della nutrizione
 Ufficio IX ex DGSAN
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REGIONE DEL VENETO - GIUNTA REGIONALE	
U.P. VETERINARIA	
Data di arrivo	
Data registraz.	21 GIU. 2013
Prot. N.	266161
Indirizzo classificazione	Pratica / Fascicolo
B.900.02.16	

The Principles of Handling Foods Contaminated by Maleic Anhydride Modified Starch

【Announcement date: 2013-05-28】

1. These principles are aiming at the foods containing maleic anhydride modified starch without approval, which has violated regulations of Act Governing Food Sanitation.
2. According to "Standards for Specification, Scope, Application and Limitation of Food Additives", the modified starch of food grade shall be items specified in category 12 pasting agent to increase the thickness. If it is necessary to add modified starch of food grade in foods, the manufacturer shall use items specified in preceding standards.
 - (1) There are 21 types of modified starch of food grade approved by now and "maleic anhydride modified starch" is not the approved item. Therefore, the food manufacturers that use "maleic anhydride modified starch" to produce foods have violated the Act Governing Food Sanitation.
 - (2) Maleic anhydride is the indirect food additive approved by the FDA and EU, which is converted to maleic acid while reacting with water.
 - (3) Maleic acid originated from foods as follows:
 - i. Existing in legal additive malic acid (500 ppm) and fumaric acid (1000 ppm).
 - ii. Produced by the maillard reaction during baking at high temperature or from malic acid or fumaric acid via fermentation process.
 - iii. Migrating from approved packaging materials with maleic anhydride to foods.
3. Where there is food with maleic anhydride from illegal use of maleic anhydride modified starch instead of residue from legal processing or migrated from packaging materials inspected and confirmed after investigation, the following handling principles shall be applied (see attachment 1 for flowchart)
 - (1) Dealing with the product

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- i. Those products violating regulations shall be recalled and destroyed in accordance with article 29 of Act Governing Food Sanitation.
- ii. Ask the responsible manufacturers to implement the recall process in accordance with "Regulations of Recall and Destruction for Food and Related Products."

(2) Dealing with the doer

- i. The fine between NT\$30,000 and NT\$150,000 shall be imposed in accordance with article 33 of Act Governing Food Sanitation for violating article 12 of the same Act.
 - ii. In addition, if the level of maleic acid in end product is too high and it is considered harmful to human health after risk assessment, the fine between NT\$60,000 and NT\$6000,000 shall be imposed in accordance with article 31 of Act Governing Food Sanitation for violating subparagraph 3 of paragraph 1 of article 11 of the same Act.
4. The manufacturer shall get non-compliant products confirmed off the shelf by deadline and stop the sales. For failure to recall the products within deadline, the aggravate punishment will be applied in accordance with Regulations of Recall and Destruction for Food and Related Products.
 5. From now on, all the starch materials providers shall provide the letter of guarantee (see attachment 2 for the format of letter of guarantee) to all food businesses selling products containing starch, including the flat rice noodle, Taiwanese meat ball, tempura, tapioca pearl, tofu pudding, rice patty, taro ball and sweet potato ball etc.
 6. Starting June 1, the health bureaus nationwide will launch overall inspection. For any violation or false guarantee found, the aggravate punishment will be applied.

Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods (Draft)

1. Scope

This method is applicable for the determination of total amount of maleic acid and maleic anhydride in maleic anhydride esterified starch and its products.

2. Method

After extraction and basic hydrolysis, maleic acid is determined by high performance liquid chromatograph (HPLC).

2.1. Equipment

2.1.1. High Performance Liquid chromatograph.

2.1.1.1. Detector: photodiode array detector.

2.1.1.2. Column: GL Sciences InertSustain C18, 5 μm , 4.6 mm i.d. \times 25 cm, or an equivalent product.

2.1.2. Shaker.

2.1.3. pH meter.

2.2. Chemicals

Methanol, HPLC grade;

Phosphoric acid, 85%, AR grade;

Hydrochloric acid, AR grade;

Potassium hydroxide, AR grade;

Mili-Q water, resistivity $\geq 18 \text{ M}\Omega \cdot \text{cm}$ (at 25°C);

Maleic acid, reference standard.

2.3. Apparatus

2.3.1. Volumetric flask: 50 mL and 100 mL.

2.3.2. Centrifuge tube: 50 mL, PP.

2.3.3. Membrane filter: 0.22 μm , PVDF.

2.4. Reagents

2.4.1. 50% methanol

Dilute 250 mL of methanol with Mili-Q water to 500 mL.

2.4.2. 5N hydrochloric acid

Cautiously add 42 mL of hydrochloric acid to 50 mL of Mili-Q water, then cool to room temperature, and dilute with Mili-Q water to 100 mL.

2.4.3. 0.5N potassium hydroxide

Dissolve 14 g of potassium hydroxide in Mili-Q water and dilute with Mili-Q water to

500 mL.

2.4.4. 0.1% phosphoric acid

Dilute 1.2 mL of phosphoric acid with Mili-Q water to 1000 mL.

2.4.5. Mobile phase solution

0.1% phosphoric acid : methanol (98:2, v/v).

2.5. Standard solution preparation

Accurately weigh 100 mg of maleic acid reference standard to 100-mL volumetric flask, dissolve and dilute to volume with Mili-Q water as standard stock solution. When to use, dilute standard stock solution with Mili-Q water to 0.02 - 1.0 µg/mL as working standard solution.

2.6. Sample solution preparation

Transfer about 1 g of the sample accurately weighed to a centrifuge tube, add 25 mL of 50% methanol, shake for 30 min. add 20 mL of 0.5N potassium hydroxide and mix. After standing for 2 hrs, acidify with about 3 mL of 5N hydrochloric acid, dilute with Mili-Q water to 50 mL, and stand for several minutes. Dilute 100 µL (a) of the upper solution with Mili-Q water to 1000 µL (b), then mix and filtrate with membrane filter as the sample solution.

2.7. Identification and quantification

Accurately inject 20 µL of the sample solution and standard solution into HPLC respectively according to below HPLC operating conditions. Identify and quantify maleic acid against the retention time and absorbance spectrum. Calculate the total amount of maleic acid and maleic anhydride in the sample by the following formula:

$$\text{The total amount of maleic acid and maleic anhydride in sample (ppm)} = \frac{C \times V \times F}{M}$$

where

C: the concentration of maleic acid in the sample solution calculated by the standard curve (µg/mL)

V: the make up volume of sample (mL)

M: the weight of sample (g)

F: the dilution factor, b/a

Note: The total amount of maleic acid and maleic anhydride is expressed "as maleic acid".

HPLC operating conditions:

Photodiode array detector: UV 214 nm

Mobile phase: 0.1% phosphoric acid : methanol (98:2, v/v)

Column: GL Sciences InertSustain C18, 5 µm, 4.6 mm i.d. × 25 cm

Injection volume: 20 µL

Flow rate: 1 mL/min

Note:

1. The column used should effectively separate maleic acid with other acids, such as fumaric acid, acetic acid, malic acid and succinic acid, etc.

2. All the parameters can be adjusted according to the equipment used if above conditions are not applicable.

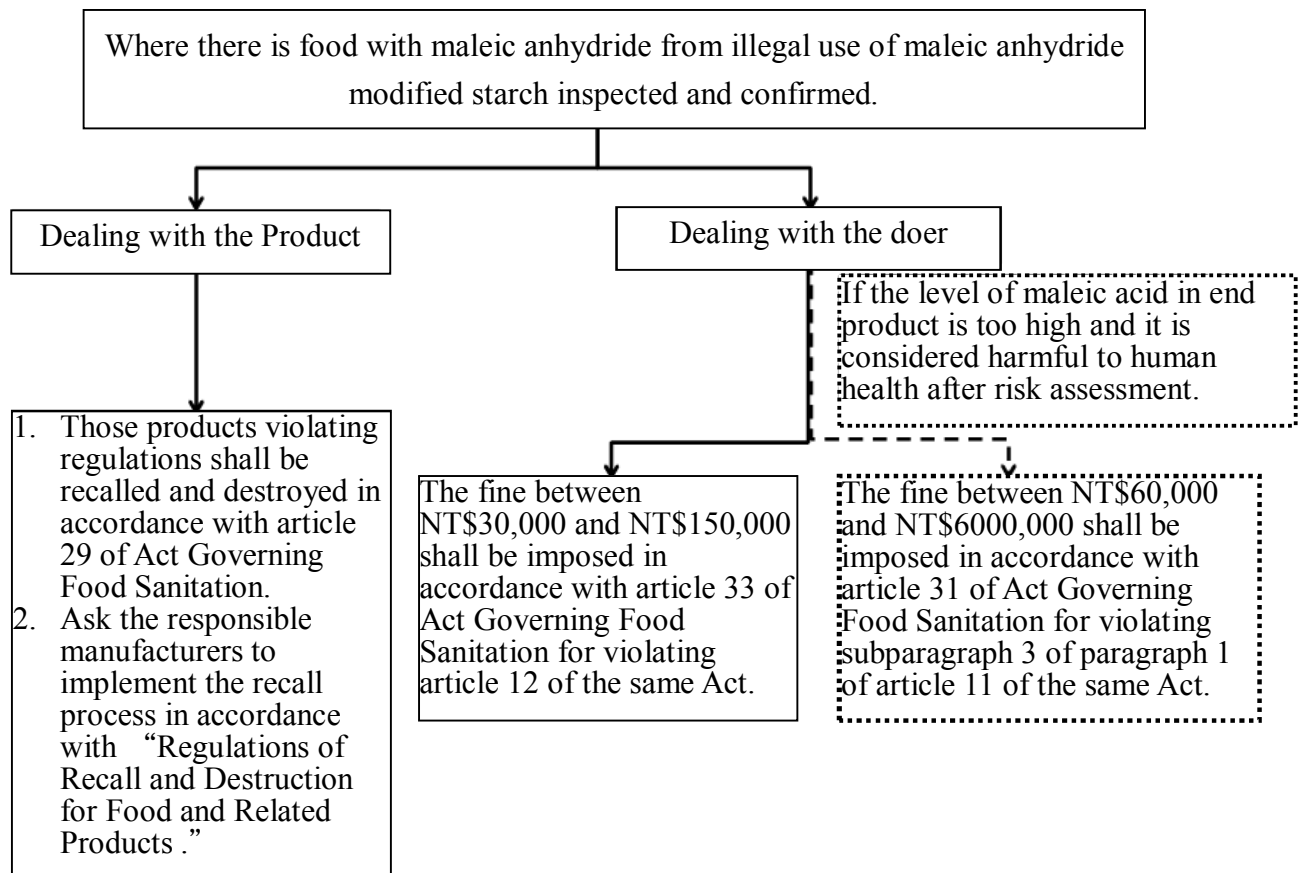
Remarks:

1. The limit of quantification (LOQ) for maleic acid is 10 ppm.
2. Further validation shall be done when interference compounds appeared in samples.
3. As verify by liquid chromatograph/tandem mass spectrometer (LC/MS/MS), use 0.1% formic acid: methanol (98:2, v/v) as the mobile phase, and the parameters of multiple reaction monitoring (MRM) are shown as follows:

Analyte	Ionization mode	Detection ion (<i>m/z</i>)	Declustering potential (V)	Collision energy (eV)
		precursor ion > product ion		
Maleic acid	ESI ⁻	115 > 71	-15	-11

4. Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.

The Principles of Handling Foods Contaminated by Maleic Anhydride Modified Starch



Letter of Guarantee

The letter is hereby issued to guarantee that products sold by (_____) Company/Firm (Chairman : _____) are free from Maleic anhydride modified starch and satisfactory to the food sanitation standards. For any statement is found untrue, the undersigned will take legal responsibilities.

Company/Firm providing guarantee:

By :

Date:



可檢測「食品中順丁烯二酸與順丁烯二酸酐總量」之實驗室一覽表

Laboratories of Testing Total Amount of Maleic Acid and Maleic Anhydride in Foods

製表日期：102.05.31

Date：102.05.31

編號 Number	實驗室名稱 Laboratory Name	實驗室地址、電話及 E-Mail Laboratory Address, Phone, and E-Mail
1	全國公證檢驗股份有限公司 (化學暨微生物事業部) Intertek Testing Services Taiwan Ltd. (Chemicals and Microbiology Division)	地址：台北市內湖區瑞光路 423 號 12 樓 Address：8F., No. 423, Ruiguang Rd., Neihu District, Taipei, Taiwan R.O.C. Phone：+886-2- 6602-2888 ext. 201 +886-2-6602-2275 E-Mail： deborah.yang@intertek.com stefan.hsu@intertek.com
2	台灣檢驗科技股份有限公司 (食品實驗室-台北) SGS Taiwan Ltd. (Food Laboratory-Taipai)	地址：新北市新北產業園區五工路 125 號 3 樓 Address：No.125, Wu Kung Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan R.O.C. Phone：+886-2- 2299- 3279 ext.6654 E-Mail： tw.food.reception@sgs.com
3	華友科技顧問股份有限公司 (藥物食品化妝品檢驗實驗室) Hwayo Tech & Lab Co., Ltd. (Pharmaceutical, Food & Cosmetics Laboratory)	地址：新北市新莊區中正路 610 號 2 樓 Address：2F,No.610, Zhong Zheng Rd Xinzhuang Dist, New Taipei City, Taiwan R.O.C. Phone：+886-2- 2906-0887 E-Mail： lab@hwayo.com.tw
4	台美檢驗科技有限公司 (檢驗中心) Super Laboratory (Testing Center)	地址：新北市新莊區五工五路 21 號 Address：No.21, Wugong 5th Rd., Xinzhuang Dist., New Taipei City, Taiwan Phone：+886- 2-2298-1887 E-Mail： service@superlab.com.tw
5	杜夫萊茵股份有限公司 (高雄實驗室) TÜV Rheinland AIMEX Ltd. (Kaohsiung, Taiwan)	地址：高雄市前鎮區南七路 3 號 3 樓 Address：：3F., No.3, S. 7th Rd., Cianjhen Dist.,Kaohsiung, Taiwan R.O.C. Phone：886- 7-831-7000 E-Mail： Joyce.Chen@twn.tuv.com

編號 Number	實驗室名稱 Laboratory Name	實驗室地址、電話及 E-Mail Laboratory Address, Phone, and E-Mail
6	財團法人食品工業發展研究所 (檢驗技術研發及服務中心) Food Industry Research and Development Institute(FIR DI) (Analysis Research and Service Center)	地址：新竹市食品路 331 號 Address : 331 Shih-Pin Road, Hsinchu, Taiwan R.O.C. Phone : 886- 3-5223191 ext.258 / ext.259 E-Mail : hsc@firdi.org.tw ryh@firdi.org.tw
7	財團法人中華穀類食品工業技術研究 所 (化驗組實驗室) China Grain Products Research and Development Institute	地址：新北市八里區下罈子 12-6 號 Address : No.12-6, Xiaguzi, Bali Dist., New Taipei City, Taiwan R.O.C. Phone : +886- 2-2610 1010 ext. 260 E-Mail : hsinna.chen@cgprdi.org.tw
8	美和科技大學 (農水產品檢驗服務中心) Meiho University (Analysis Center for Aqua- & Agriculture)	地址：屏東縣內埔鄉美和村屏光路 23 號 Address : 23 , Pingkuang Rd., Neipu, Pingtung, Taiwan R.O.C. Phone : +886-8- 779-9821 ext.8366 E-Mail : x00001696@meiho.edu.tw
9	財團法人金屬工業研究發展中心 (超微量分析實驗室) Ultra Trace Laboratory, Metal Industries Research & Development Centre	地址：高雄市楠梓區高楠公路 1001 號 Address : 1001 Kaonan Highway Nantzu Dist., Kaohsiung, Taiwan R.O.C. Phone : +886-7-3513121 E-Mail : mattchen102@mail.mirdc.org.tw
10	財團法人台灣電子檢驗中心 (綠色產品測試實驗室) Electronics Testing Center, Taiwan	地址：桃園縣龜山鄉文明路 29 巷 8 號 Address : 8, Lane 29, Wen-Ming Rd., Kui-Shan, Taoyuan County, Taiwan R.O.C. Phone : +886-3-3280026 ext. 286 E-Mail : ccwen@etc.org.tw
11	擘凱國際檢驗科技股份有限公司(食品 安全檢驗中心) FSI Taiwan (Food Safety Institute International-Asia Pacific Office)	地址：台北市內湖區內湖路一段 120 巷 15 弄 28 號 Address : No.28, Aly. 15, Ln. 120, Sec. 1, Neihu Rd., Neihu Dist., Taipei City, Taiwan R.O.C. Phone : +886-2- 8751-1232 E-Mail : foodsafety@fsi.net.tw
12	勝昌製藥廠股份有限公司 (勝昌檢驗中心) Sheng Chang Pharmaceutical Co., Ltd	地址：桃園縣中壢市民族路六段 436 號 Address : No.436, Sec.6, Minzu Road, Zhongli City, Taoyuan Country, Taiwan.

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13	愛之味股份有限公司 (健康科學研究所檢驗分析中心) A.G.V. Products Corp. (Food & Health Research Institute-Analytical Testing Center)	地址：嘉義縣民雄鄉頭橋工業二路 11 號 Address : No.11,Kung Yeh 2 rd. Min Hsiung Ind District. Chiayi Taiwan R.O.C. Phone : +886-5-2211521 E-Mail : analysis@mail.agv.com
14	台灣檢驗科技股份有限公司 (食品實驗室-高雄) SGS TAIWAN LTD. (Food Laboratory-Kaohsiung)	地址：高雄市楠梓加工出口區開發路 61 號 Address : No.61 Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan. Phone : +886- 7-3012121 E-Mail : jeremy.li@sgs.com
15	國立屏東科技大學 (農水產品檢驗與驗證中心) National Pingtung University of Science and Technology (Center for Agriculture and Aquaculture Product Inspection and Certification)	地址：屏東縣內埔鄉學府路 1 號 Address : No. 1, Shuefu Rd., Neipu, Pingtung, Taiwan R.O.C. Phone : +886- 8-7740219 E-Mail : caapic_adm@mail.npust.edu.tw
16	昭信標準檢驗股份有限公司 (藥物化學檢測實驗室) General Standard Laboratory Co., Ltd.	地址：新北市新莊區中山路一段 67 號 15 樓 Address : 15F.,No.67,SEC.1,Zhongshan Rd.,Xinzhuang Dist.,New Taipei City, Taiwan R.O.C. Phone : +886- 2-85221588 E-Mail : sunny111222@fdalab.com.tw
17	財團法人中央畜產會 (技術服務中心) National Animal Industry Foundation (Technical Service Center)	地址：屏東市工業五路 2 號 Address : No.2, Industry 5th Road, Ping-Tung City, Ping-Tung County, Taiwan R.O.C. Phone : +886-8- 7230341 ext. 8227 E-Mail : lien@ms.naif.org.tw
18	弘光科技大學 (食品與化妝品品質檢驗與分析中心) Hung Kuang University (Testing And Analysis Center for	地址：台中市沙鹿區臺灣大道六段 1018 號 N 棟 507 室 Address : Room N507, No. 1018, Sec. 6, Taiwan Boulevard, Shalu District,

編號 Number	實驗室名稱 Laboratory Name	實驗室地址、電話及 E-Mail Laboratory Address, Phone, and E-Mail
	Food And Cosmetics)	Taichung City Taiwan R.O.C. Phone : +886-4 -26318652 # 5072 E-Mail : long49104026@hotmail.com

Intertek

全國公證檢驗股份有限公司
Intertek Testing Services Taiwan Ltd.

檢驗證明

Test Report

報告日期 Date of Report _____ 報告號碼 Report No. _____

申請人 Applicant _____

輸出者 Exporter _____

製造工廠 (或生產者) Manufacturer (Producer) _____

品名 Commodity _____

標識 (樣品批號或製造日期或有效日期) Mark (Sample Lot Number or Manufacture Date or Expiry Date) _____

收樣日期 Sample Received Date _____

檢驗方法 Test Method 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

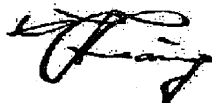
檢驗日期 Testing Date _____

檢驗結果 Test Results :

Maleic Acid N. D.

備考 Remark :

1. 食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(limit of quantification, LOQ)為 10 ppm。



Signature of Authorized Representative

Intertek Testing Services Taiwan Ltd.
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全國公證檢驗股份有限公司
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食品實驗室-台北
FOOD LAB-TAIPEI
檢驗證明
Test Report

報告日期
Date of Report

報告號碼
Report No.

申請人
Applicant

輸出者
Exporter

製造工廠 (或生產者)
Manufacturer (Producer)

品名
Commodity

標識 (樣品批號或製造日期或有效日期)
Mark (Sample Lot Number or Manufacture Date or Expiry Date)

收樣日期
Sample Received Date

檢驗方法
Test Method 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期
Testing Date

檢驗結果:
Test Results:
Maleic Acid N.D.

備考

Remark:

- 食品中可能存在微量順丁烯二酸, 當檢驗出微量順丁烯二酸時, 尚需就其原料綜合研判, 以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
- 定量極限(limit of quantification, LOQ)為 10 ppm。



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華友科技顧問股份有限公司
HWAYO TECH & LAB CO., LTD.

檢驗證明
Test Report

報告日期 Date of report _____ 報告號碼 Report No. _____

申請人 Applicant _____

輸出者 Exporter _____

製造工廠(或生產者) Manufacturer (Producer) _____

品名 Commodity _____

標識(樣品批號或製造日期或有效日期) Mark (Sample Lot Number or Manufacture or Expiry Date) _____

收樣日期 Sample Received Date _____

檢驗方法 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期 Testing Date _____

檢驗結果 Test results :

Maleic Acid N.D.

備考

Remark :

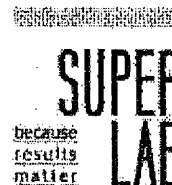
1. 食品中可能存在微量順丁烯二酸，當檢體驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(limit of quantification, LOQ)為 10 ppm。

Signature of Authorized Representative

24255 新北市新莊區中正路 610 號 2F
No. 610, Zhong Zheng Rd
Xinzhuan Dist, New Taipei City, Taiwan 24255
TEL: (02) 2906-0887 / FAX: (02) 2906-0930



台美檢驗科技有限公司檢驗中心
Super Laboratory Testing Center



檢驗證明
Test Report

報告日期 Date of Report _____ 報告號碼 Report No. _____

申請人 Applicant _____

輸出者 Exporter _____

製造工廠(或生產者) Manufacturer (Producer) _____

品名 Commodity _____

標識(樣品批號或製造日期或有效日期) Mark (Sample Lot Number or Manufacture Date or Expiry Date) _____

收樣日期 Sample Received Date _____

檢驗方法 Test Method 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期 Testing Date _____

檢驗結果 Test Results :

Maleic Acid N.D.

備考 Remark :

1.食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。

Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.

2.定量極限(limit of quantification, LOQ)為 10 ppm($\mu\text{g/g}$)。

Wei-Chung Shih

Signature of Authorized Representative



實驗室地址：24890 新北市新莊區五股工業區五工五路 21 號/電話：+886 2 2298-1887/傳真：+886 2 2290-2510
Lab Address: No.21, Wugong 5th Rd., Xinzhuang Dist., New Taipei City 24890, Taiwan / T +886 2 2298-1887 / F +886 2 2290-2510

杜夫萊茵股份有限公司 高雄實驗室
TÜV Rheinland AIMEX Ltd. Kaohsiung Lab

檢驗證明
Test Report

報告日期 _____ 報告號碼 _____
Date of report _____ Report No. _____

申請人 _____
Applicant _____

輸出者 _____
Exporter _____

製造工廠(或生產者) _____
Manufacturer (Producer) _____

品名 _____
Commodity _____

標識(樣品批號或製造日期或有效日期) _____
Mark (Sample Lot Number or Manufacture or Expiry Date) _____

收樣日期 _____
Sample Received Date _____

檢驗方法 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期 _____
Testing Date _____

檢驗結果
Test results :

Maleic Acid N.D.

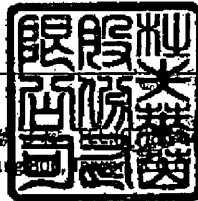
備考

Remark :

1. 食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(limit of quantification, LOQ)為 10 ppm。

Signature of Authorized Representative

實驗室地址: 80681 高雄市前鎮區南七路 3 號
Address: 3F, No.3, S. 7th Rd., Cianjhen Dist., Kaohsiung City, Taiwan
TEL: (07)8317000, FAX: (07)8313848



財團法人食品工業發展研究所
檢驗技術研發及服務中心
Food Industry Research and Development Institute
Analysis Research and Service Center

檢驗證明
Test Report

報告日期 _____ 報告號碼 _____
Date of Report _____ Report No. _____

申請人 _____
Applicant _____

輸出者 _____
Exporter _____

製造工廠 (或生產者) _____
Manufacturer (Producer) _____

品名 _____
Commodity _____

標識 (標品批號或製造日期或有效日期) _____
Mark (Sample Lot Number or Manufacture Date or Expiry Date) _____

收樣日期 _____
Sample Received Date _____

檢驗方法 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods (Suggestion Method by
DOH, Taiwan)

檢驗日期 _____
Testing Date _____

檢驗結果:
Test Results:

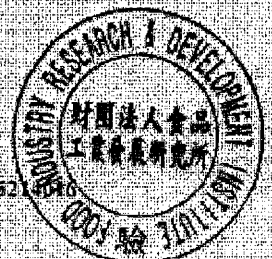
Maleic Acid N.D.

備考
Remark:

- 食品中可能存在微量順丁烯二酸。當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
- 定量極限(limit of quantification, LOQ)為 10 ppm。

Signature of Authorized Representative _____
Jui-Shu Chang

實驗室地址/電話/傳真: 30062 新竹市食品路 331 號 / +886-3-5223191 / +886-3-5214016
Lab. Address/Tel/Fax: 331 Shih-Pin Road, Hsinchu, 30062 Taiwan / +886-3-5223191 / +886-3-5214016



財團法人食品工業發展研究所
檢驗技術研發及服務中心
Food Industry Research and Development Institute
Analysis Research and Service Center

檢驗證明
Test Report

報告日期 Date of Report _____ 報告號碼 Report No. _____

申請人 Applicant _____

輸出者 Exporter _____

製造工廠 (或生產者) Manufacturer (Producer) _____

品名 Commodity _____

標識 (樣品批號或製造日期或有效日期) Mark (Sample Lot Number or Manufacture Date or Expiry Date) _____

收樣日期 Sample Received Date _____

檢驗方法 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods (Suggestion Method by DOH, Taiwan)

檢驗日期 Testing Date _____

檢驗結果 Test Results:

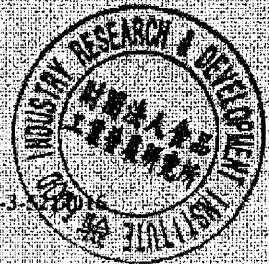
Maleic Acid N.D.

備考 Remark:

1. 食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(Limit of quantification, LOQ)為 10 ppm.

Signature of Authorized Representative *Ying-Hua Jao*

實驗室地址/電話/傳真: 30062 新竹市食品路 331 號 / +886-3-5223191 / +886-3-5214016
Lab. Address/Tel/Fax: 331 Shih-Pin Road, Hsinchu, 30062 Taiwan / +886-3-5223191 / +886-3-5214016





財團法人中華穀類食品工業技術研究所 化驗組實驗室
China Grain Products Research and Development Institute

檢驗證明
Test Report

報告日期報告號碼

Date of report

Report No.

申請人

Applicant

輸出者

Exporter

製造工廠(或生產者)

Manufacturer (Producer)

品名

Commodity

標識(樣品批號或製造日期或有效日期)

Mark(Sample Lot Number or Manufacture or Expiry Date)

收樣日期

Sample Received Date

檢驗方法食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)

Test Method(Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods

(Suggestion Method by DOH, Taiwan)

檢驗日期

Testing Date

檢驗結果

Test results :

Maleic Acid N.D.

備考

Remark :

1. 食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。

Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.

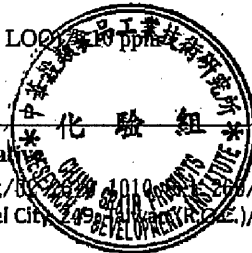
2. 定量極限(limit of quantification, LOQ) 每100ppm

林政碩

Signature of Authorized Representative

24937 新北市八里區下崙子 12-6 號/02-2610 3351

No.12-6, Xlaguzi, Ball Dist., New Taipei City, 24937, Taiwan, R.O.C. / 886-2-2610 1010/ 886-2-2610 3351



美和科技大學 農水產品檢驗服務中心
MEIHO UNIVERSITY

檢驗證明
Test Report

報告日期
Date of report _____ 報告號碼
Report No. _____

申請人
Applicant _____

輸出者
Exporter _____

製造工廠(或生產者)
Manufacturer (Producer) _____

品名
Commodity _____

標識(樣品批號或製造日期或有效日期)
Mark (Sample Lot Number or Manufacture or Expiry Date) _____

收樣日期
Sample Received Date _____

檢驗方法 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan.)

檢驗日期
Testing Date _____

檢驗結果
Test results :

Maleic Acid N.D.

備考
Remark :

1. 食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(Limit of quantification, LOQ)為10ppm。

Ching-Chuan Chen Ph.D.

Signature of Authorized Representative

912 屏東縣內埔鄉美和村屏光路 23 號 電話 Tel: (08)7799821-8366 傳真 Fax: (08)7780192

23, Ping Kuang Rd., Neipu Hsiang, Pingtung, Taiwan, 91202, R. O. C.





檢驗證明
Test Report

報告日期 _____ 報告號碼 _____
Date of report _____ Report No. _____

申請人 _____
Applicant _____

輸出者 _____
Exporter _____

製造工廠(或生產者) _____
Manufacturer (Producer) _____

品名 _____
Commodity _____

標識(樣品批號或製造日期或有效日期) _____
Mark (Sample Lot Number or Manufacture or Expiry Date) _____

收樣日期 _____
Sample Received Date _____

檢驗方法 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期 _____
Testing Date _____

檢驗結果
Test results :

Maleic Acid N.D.

備考
Remark :

- 食品中可能存在微量順丁烯二酸，當檢體驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods. When trace amounts of maleic acid are detected, comprehensive judgment shall be conducted on its raw materials to clarify whether maleic anhydride esterified starch has been illegally added.
materials shall be conducted.
- 定量極限(limit of quantification, LOQ)為 10 ppm。

陳嘉昌 0930



Signature of Authorized Representative
高雄市楠梓區高楠公路 1001 號/電話：07-3513121/傳真：07-3533581
Address: 1001 Kaonan Highway 811 Nantzu Dist., Kaohsiung, Taiwan/Tel: +886-7-3513121/Fax: +886-7-3533581



檢驗證明
Test Report

報告日期 _____ 報告號碼 _____
Date of report _____ Report No. _____

申請人 _____
Applicant _____

輸出者 _____
Exporter _____

製造工廠(或生產者) _____
Manufacturer (Producer) _____

品名 _____
Commodity _____

標識(樣品批號或製造日期或有效日期) _____
Mark (Sample Lot Number or Manufacture or Expiry Date) _____

收樣日期 _____
Sample Received Date _____

檢驗方法 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期 _____
Testing Date _____

檢驗結果
Test results :

Maleic Acid N.D.

備考
Remark :

- 食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation by materials shall be conducted.
- 定量極限(limit of quantification, LOQ)為 10 ppm。



Chen, Shih-Ly
Signature of Authorized Representative

高雄市楠梓區高楠公路 1001 號/電話：07-3513121/傳真：07-3533581
Address: 1001 Kaonan Highway 811 Nantzu Dist., Kaohsiung, Taiwan/Tel : +886-7-3513121/Fax : +886-7-3533581

財團法人台灣電子檢驗中心
ELECTRONICS TESTING CENTER TAIWAN

檢驗證明
Test Report

報告日期 Date of report _____ 報告號碼 Report No. _____

申請人 Applicant _____

輸出者 Exporter _____

製造工廠(或生產者) Manufacturer (Producer) _____

品名 Commodity _____

標識(樣品批號或製造日期或有效日期) Mark (Sample Lot Number or Manufacture or Expiry Date) _____

收樣日期 Sample Received Date _____

檢驗方法 食品中順丁烯二酸及順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method, Methods of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
Suggestion Method by DOHS, Taiwan

檢驗日期 Testing Date _____

檢驗結果 Test results : _____

Maleic Acid N.D.

備考 Remark :

1. 食品中可能存在微量順丁烯二酸，當檢體驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(limit of quantification, LOQ)為 10 ppm。

溫沁清

Signature of Authorized Representative _____





檢驗證明
Test Report

報告日期報告號碼
Date of report _____ Report No. _____

申請人
Applicant _____

輸出者
Exporter _____

製造工廠(或生產者)
Manufacturer (Producer) _____

品名
Commodity _____

標識(樣品批號或製造日期或有效日期)
Mark (Sample Lot Number or Manufacture or Expiry Date) _____

收樣日期
Sample Received Date _____

檢驗方法食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期
Testing Date _____

檢驗結果
Test results : _____

Maleic Acid N.D.

備考
Remark :

1. 食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(limit of quantification, LOQ)為 10 ppm.

Signature of Authorized Representative





勝昌製藥廠股份有限公司
SHENG CHANG PHARMACEUTICAL CO., LTD.

32050桃園縣中壢市民族路六段436號
TEL:(03)4909682 FAX:(03)4901478
http://www.herb.com.tw

勝昌檢驗中心
Shang Chang Testing Center

檢驗證明
Test Report

報告日期報告號碼

Date of report _____ Report No. _____

申請人

Applicant _____

輸出者

Exporter _____

製造工廠(或生產者)

Manufacturer (Producer) _____

品名

Commodity _____

標識(樣品批號或製造日期或有效日期)

Mark(Sample Lot Number or Manufacture or Expiry Date) _____

收樣日期

Sample Received Date _____

檢驗方法食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)

Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期

Testing Date _____

檢驗結果

Test results :

Maleic Acid N.D.

備考

Remark :

1. 食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(limit of quantification, LOQ)為 10 ppm。

Yuan-Jen Wu

Signature of Authorized Representative

32050 桃園縣中壢市民族路六段 436 號 / 電話: 03-4909682 轉 874 / 傳真: 03-4201998

No.436, Sec.6, Minzu Road, Zhongli City, Taoyuan Country, Taiwan /

TEL: 886-3-4909682 ext 874 / FAX: 886-3-4201998

愛之味股份有限公司
健康科學研究所檢驗分析中心
A.G.V. Products Corp.

Food & Health Research Institute-Analytical Testing center

檢驗證明
Test Report

報告日期 _____ 報告號碼 _____
Date of report _____ Report No. _____

申請人 _____
Applicant _____

輸出者 _____
Exporter _____

製造工廠(或生產者) _____
Manufacturer (Producer) _____

品名 _____
Commodity _____

標識(樣品批號或製造日期或有效日期) _____
Mark(Sample Lot Number or Manufacture or Expiry Date) _____

收樣日期 _____
Sample Received Date _____

檢驗方法食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

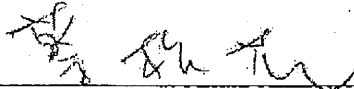
檢驗日期 _____
Testing Date _____

檢驗結果 _____
Test results : _____

Maleic Acid _____ N.D. _____

備考 _____
Remark :

1. 食品中可能存在微量順丁烯二酸，當檢驗出微量順丁烯二酸時，尚需就其原料綜合研判以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(limit of quantification, LOQ)為 10 ppm。



Signature of Authorized Representative

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No. 11, KUNG YEH 2 RD, MIN HSIONG IND DISTRICT, CHIAYI TAIWAN R.O.C.
TEL: 886-05-2211521 ext: 760 / FAX: 886-05-2217027





食品實驗室-高雄
FOOD LAB-KAOHSIUNG
檢驗證明
Test Report

報告日期
Date of Report

報告號碼
Report No.

申請人
Applicant

輸出者
Exporter

製造工廠(或生產者)
Manufacturer (Producer)

品名
Commodity

標識(樣品批號或製造日期或有效日期)
Mark (Sample Lot Number or Manufacture Date or Expiry Date)

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檢驗方法
Test Method
食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期
Testing Date

檢驗結果:
Test Results:

Maleic Acid N.D.

備考

Remark:

1. 食品中可能存在微量順丁烯二酸,當檢驗出微量順丁烯二酸時,尚需就其原料綜合研判,以釐清是否違法添加順丁烯二酸酐化製澱粉。

Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.

2. 定量極限(limit of quantification, LOQ)為 10 ppm。

Mandy Yu, MS/ Supervisor
Signed for and on behalf of
SGS TAIWAN Ltd.

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國立屏東科技大學 農水產品檢驗與驗證中心
NATIONAL PING TUNG UNIVERSITY of SCIENCE and TECHNOLOGY
Center for Agriculture and Aquaculture Product
Inspection and Certification
1,shuehfu Rd.,Neipu,pingtung 91201,Taiwan 886-8-7740219/Fax:886-8-7740218
CAAPIC_ADM@mail.npust.edu.tw

檢驗證明

Test Report

報告日期
Date of report _____ 報告號碼
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申請人
Applicant _____

輸出者
Exporter _____

製造工廠(或生產者)
Manufacturer (Producer) _____

品名
Commodity _____

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檢驗方法 食品中順丁烯二酸與順丁烯二酸酐總量檢測方法(行政院衛生署公開建議方法)
Test Method Method of Test for Total Amount of Maleic Acid and Maleic Anhydride in Foods
(Suggestion Method by DOH, Taiwan)

檢驗日期
Testing Date _____

檢驗結果
Test results :

Maleic Acid N.D.

備考
Remark :

1. 食品中可能存在微量順丁烯二酸，當檢體驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
Trace amounts of maleic acid may be present in foods, therefore, to determine the illegal addition of maleic anhydride esterified starch, further inspection and interpretation of raw materials shall be conducted.
2. 定量極限(limit of quantification, LOQ)為 10 ppm。

Chyi-Shen Lin
Signature of Authorized Representative
1,shuehfu Rd.,Neipu,pingtung 91201,Taiwan 886-8-7740219/Fax:886-8-7740218





GENERAL STANDARD LABORATORY CO., LTD.

Address : 15F., No.67, Sec. 1, Zhongshan Rd., Xinzhuang Dist., New Taipei City 242, Taiwan
Tel : +866 2 8522 1588 Home : <http://www.fdalab.com.tw> Toll Free : 0800-213-888
Fax : +886 2 8522 1388 E-mail : fda@fdalab.com.tw

檢驗證明 Test Report

報告日期 _____ 報告號碼 _____
Date of report _____ Report No. _____

申請人 _____
Applicant _____

輸出者 _____
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製造工廠(或生產者) _____
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品名 _____
Commodity _____

標識(樣品批號或製造日期或有效日期) _____
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檢驗日期 _____
Testing Date _____

檢驗結果
Test results :

Maleic Acid N.D.

備考

Remark :

- 食品中可能存在微量順丁烯二酸，當檢體驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
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- 定量極限(limit of quantification, LOQ)為 10 ppm。

Signature of Authorized Representative

實驗室中文地址/電話/傳真：新北市新莊區中山路一段 67 號 15 樓 電話:02-8522-1588 傳真:02-85221388
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Tel :+866 2 8522 1588 Fax :+886 2 8522 1388

財團法人中央畜產會
NATIONAL ANIMAL INDUSTRY FOUNDATION

檢驗證明
Test Report

報告日期 _____ 報告號碼 _____
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Testing Date _____

檢驗結果
Test results :

Maleic Acid N.D.

備考

Remark :

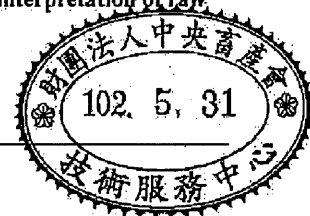
1. 食品中可能存在微量順丁烯二酸，當檢體驗出微量順丁烯二酸時，尚需就其原料綜合研判，以釐清是否違法添加順丁烯二酸酐化製澱粉。
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郭素琴

Signature of Authorized Representative

900 屏東市工業五路二號/08-7230341/08-7230285

No. 2, Kung-Ye 5th Rd. Ping-Tung Taiwan R.O.C / 08-7230341 / 08-723-0285



弘光科技大學 食品與化妝品分析與檢驗中心
Hungkuang University Testing and Analysis Center for Food and Cosmetics

檢驗證明
Test Report

報告日期
Date of report _____ 報告號碼
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申請人
Applicant _____

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備考
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Chien-ka Lin

Signature of Authorized Representative

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Address: Room N507, No. 1018, Sec. 6, Taiwan Boulevard, Shalu District, Taichung City 43302, Taiwan (R.O.C.) / TEL: 886-4-26312218 # 5070-5072 / FAX: 886-4-26312218

