



## Test Report

Date of issue: 21-03-2023

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Castco LRN: 230306-2269

Sample details as supplied by customer:-

Customer: Hung Win Trading Company Ltd

Customer Ref. No.: --

Address: UNIT A, A2 6/F TAT MING IND BLDG,  
44-52 TA CHUEN PING ST, KWAI CHUNG, NT

Contract No.: --

Sample Name: 康活健 NMN PRO MAX

Sample / Batch No. : 3013

Manufacturer: HANWOOD USA BIOTECHNOLOGY CO. LTD.

Date Sampled: --

Pack size: 每盒三小盒，每小盒一排，每排10粒。

Exp Date: 17-01-2026

Sample description: 每日1次，每次2粒，每劑量1.06克

Laboratory Test Results:-

Date of sample received: 02-03-2023

Test period: 06-03-2023 to 21-03-2023

- Method used:
- 1-7: In-house method by employing inductively coupled plasma mass spectrometry
  - 8: In-house method by employing gas chromatography with electron capture detector and mass selective detector
  - 9: In-house method by employing high performance liquid chromatography with tandem mass spectrometry
  - 10: US FDA, BAM Online, Ch. 3, 2001
  - 11: AOAC, 991.14, 2005, Petrifilm Method
  - 12: US FDA, BAM Online, Ch. 5, 2007
  - 13: US FDA, BAM Online, Ch 18, Jan.2001

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**Laboratory test result (cont'd) 實驗室測試結果(續):**

Toxic elements and metallic contaminants 有毒元素及重金屬

(Expressed with risk assessment approach 以風險評估方式表達)

| Test items<br>檢測項目            | Result(s) 檢測結果<br>mg/kg(ppm)<br>每公斤含毫克(百萬分率) | Sample size <sup>7</sup> intake to reach the<br>Daily tolerable intake inferred (g)<br>(For reference only)<br>要達到推算之每日可容忍攝入上<br>限，需服用的樣品重量 <sup>7</sup> (克)<br>(僅供參考) | Risk assessment based on normal<br>daily uptake (For reference only)<br>以一日正常服用量計算的風險估<br>算#<br>(僅供參考) |
|-------------------------------|--|--|--|
| 1. Arsenic content<br>砷含量     | Not Detected<br>檢測不到                         | Above 1180<br>大過1180   | Below tolerable intake<br>低於可容忍攝入上限  |
| 2. Cadmium content<br>鎘含量     | Not Detected<br>檢測不到                         | Above 2300<br>大過2300   | Below tolerable intake<br>低於可容忍攝入上限  |
| 3. Mercury content<br>汞含量     | Not Detected<br>檢測不到                         | Above 433.3<br>大過433.3   | Below tolerable intake<br>低於可容忍攝入上限  |
| 4. Lead content<br>鉛含量        | Not Detected<br>檢測不到                         | Above 660<br>大過660   | Below tolerable intake<br>低於可容忍攝入上限  |
| 5. Chromium<br>content<br>鉻含量 | 1.1  | 150  | Below tolerable intake<br>低於可容忍攝入上限  |
| 6. Tin content<br>錫含量         | Not Detected<br>檢測不到                         | Above 110000<br>大過110000   | Below tolerable intake<br>低於可容忍攝入上限  |
| 7. Antimony content<br>銻含量    | Not Detected<br>檢測不到                         | Above 1650<br>大過1650   | Below tolerable intake<br>低於可容忍攝入上限  |

\*正常服用量由客人提供: 一日服用 1 次，一次服用 1.06 克。全日最高攝取量為 1.06 克

Normal intake as provided by customer: 1 times daily, 1.06 grams per time. Maximum intake 1.06 grams.

# 計算方法請閱第 8 頁

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Laboratory test result (cont'd) :

## 8. Organochlorine Pesticides Test 有機氯農藥測試

| Test items 檢測項目   | Test result 檢測結果<br>mg/kg(ppm) |
|---|--------------------------------|
| -Aldrin & Dieldrin 艾氏劑及狄氏劑  | <0.01                          |
| -Chlordane 氯丹 (cis-, trans- & oxy-chlordane)  | <0.02                          |
| -DDT 滴滴涕 (p,p'-DDT, o,p'-DDT, p,p'-DDE & p,p'-TDE)  | <0.2                           |
| -Endrin 異狄氏劑  | <0.01                          |
| -Heptachlor 七氯<br>(heptachlor & heptachlor-epoxide[Isomer-B])                             | <0.015                         |
| -Hexachlorobenzene 六氯苯  | <0.02                          |
| -Hexachlorocyclohexane 六六六( $\alpha$ -, $\beta$ - & $\delta$ -HCH)                        | <0.06                          |
| -Lindane 林丹( $\gamma$ -HCH)   | <0.05                          |
| -Quintozene 五氯硝基苯<br>(quintozene, pentachloroaniline & methyl pentachlorophenyl sulphide) | <0.15                          |

## 9. Organophosphorus Pesticides Test 有機磷農藥測試

| Test items 檢測項目    | Test result 檢測結果<br>mg/kg(ppm) |
|--------------------|--------------------------------|
| -Dichlorvos 滴滴畏    | <0.1                           |
| -Methamidophos 甲胺磷 | <0.05                          |
| -Trichlorphon 滴百蟲  | <0.1                           |
| -Omethoate 氧樂果     | <0.05                          |
| -Diazinon 二嗪磷      | <0.01                          |
| -Dimethoate 樂果     | <0.1                           |
| -Malathion 馬拉硫磷    | <0.1                           |
| -Isocarbophos 水胺硫磷 | <0.02                          |

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Laboratory test result (cont'd) :

## 9. Organophosphorus Pesticides Test (cont'd) 有機磷農藥測試(續)

| Test items 檢測項目         | Test result 檢測結果<br>mg/kg(ppm) |
|-------------------------|--------------------------------|
| -Triazophos 三唑磷         | <0.01                          |
| -Parathion 對硫磷          | <0.01                          |
| -Parathion-methyl 甲基對硫磷 | <0.01                          |
| -Monocrotophos 久效磷      | <0.01                          |
| -Phosphamidon 磷胺        | <0.02                          |
| -Chlorpyrifos 毒死蜱       | <0.01                          |
| -Acephate 乙酰甲胺磷         | <0.1                           |
| -Ethion 乙硫磷             | <0.1                           |
| -Methidathion 殺撲磷       | <0.02                          |

## Microbial Testing 微生物限度

| Test items 檢測項目                   | Test result 檢測結果<br>CFU/g |
|-----------------------------------|---------------------------|
| 10. Aerobic Plate Count 需氧菌總數     | <10                       |
| 11. <i>E. coli</i> count 大腸桿菌     | <10                       |
| 12. <i>Salmonella</i> 沙門氏菌        | Not detected in 25g       |
| 13. Yeast and Mold count 霉菌和酵母菌總數 | <10                       |

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Laboratory test result (cont'd):

Remarks:

- Test results only relate to the specimen tested and as received.
- ppm denotes part per million, ND denotes Not detected, N/A denotes Not Applicable.  
ppm表示百萬分率，ND表示檢測不到，N/A表示不適用。
- The reporting limits of analytes are as follows respectively:  
Arsenic = 0.1mg/kg; Mercury = 0.03mg/kg; Lead = 0.1mg/kg; Tin = 1mg/kg; Chromium = 0.2mg/kg;  
Cadmium = 0.02mg/kg; Antimony = 0.2mg/kg  
砷 = 每公斤含0.1毫克; 汞 = 每公斤含0.03毫克; 鉛 = 每公斤含0.1毫克; 錫 = 每公斤含1毫克;  
鉻 = 每公斤含0.2毫克; 鎘 = 每公斤含0.02毫克; 銻 = 每公斤含0.2毫克  
Aldrin, Dieldrin, trans-chlordane, cis-chlordane, Heptachlor = 0.005 mg/kg each  
Oxychlordane, Endrin, heptachlor-epoxide = 0.01 mg/kg each  
Hexachlorobenzene (HCB), alpha-hexachlorohexane( $\alpha$ -HCH), beta-hexachlorohexane( $\beta$ -HCH),  
delta-hexachlorohexane( $\delta$ -HCH) = 0.02 mg/kg each  
p,p'-DDE, o,p'-DDT, p,p'-TDE, p,p'-DDT, Lindane, quintozone,  
pentachloroaniline (PCA), methyl pentachlorophenylsulphide (PCAS) are 0.05mg/kg each.  
艾氏劑, 狄氏劑, 反式氯丹, 順式氯丹, 七氯 = 每隻每公斤含0.005毫克  
氧化氯丹, 異狄氏劑, 環氧化七氯 = 每隻每公斤含0.01毫克  
六氯苯,  $\alpha$ -六六六,  $\beta$ -六六六,  $\delta$ -六六六 = 每隻每公斤含0.02毫克  
p,p'-滴滴伊, o,p'-滴滴涕, p,p'-滴滴涕, p,p'-滴滴涕, 林丹,  
五氯硝基苯, 五氯苯胺, 甲基五氯苯硫醚 = 每隻每公斤含 0.05毫克  
Diazinon, Triazophos, Parathion, Parathion-methyl, Monocrotophos and Chlorpyrifos = 0.01 mg/kg each  
Isocarbophos, Phosphamidon and Methidathion = 0.02 mg/kg each  
Methamidophos and Omethoate = 0.05 mg/kg each  
Dichlorvos, Trichlorphon, Dimethoate, Malathion, Acephate and Ethion = 0.1 mg/kg each  
二嗪磷, 三唑磷, 對硫磷, 甲基對硫磷, 久效磷 及 毒死蜱 = 每隻每公斤含 0.010毫克  
水胺硫磷, 磷胺 及 殺撲磷 = 每隻每公斤含 0.020毫克  
甲胺磷 及 氧樂果 = 每隻每公斤含 0.050毫克  
滴滴畏, 滴百蟲, 樂果, 馬拉硫磷, 乙酰甲胺磷 及 乙硫磷 = 每隻每公斤含 0.100毫克
- CFS of FEHD had suggested recommendations concerning toxic elements and metallic contaminants in past years:  
Arsenic: <<Food Safety Focus (17th Issue, December 2007) – Arsenic and Food Safety>>  
Cadmium: <<Food Contaminants - Cadmium in Food>>  
Mercury: <<Report on the First Hong Kong Total Diet Study: Metallic Contaminants>> posted on CFS website  
Lead: <<Report on the First Hong Kong Total Diet Study: Metallic Contaminants>> posted on CFS website  
Chromium: <<Food Safety Focus (63rd Issue, October 2011) – Incident in Focus - Vegetables and Chromium Contamination>>  
Tin: <<Report on the First Hong Kong Total Diet Study: Metallic Contaminants>> posted on CFS website  
Antimony: <<Report on the First Hong Kong Total Diet Study: Metallic Contaminants>> posted on CFS website  
香港食物環境衛生署轄下食物安全中心於不同年分針對金屬污染物提出不同建議:  
砷: 食物安全中心於其網站刊登<<食物安全焦點(二零零七年五月第十期)-焦點個案 - 食物中的砷>>  
鎘: 食物安全中心於其網站刊登<<食物污染物 - 食物中的鎘>>  
汞: 食物安全中心於其網站刊登<<香港首個總膳食研究: 金屬污染物>>  
鉛: 食物安全中心於其網站刊登<<香港首個總膳食研究: 金屬污染物>>  
鉻: 食物安全中心於其網站刊登<<食物安全焦點 (二零一一年十月第六十三期) - 焦點個案 - 蔬菜與鉻污染>>  
錫: 食物安全中心於其網站刊登<<香港首個總膳食研究: 金屬污染物>>  
銻: 食物安全中心於其網站刊登<<香港首個總膳食研究: 金屬污染物>>

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Laboratory test result (cont'd):

5. CFS recommended following daily tolerable intake of metallic contaminants:

Arsenic as inorganic arsenic, Mercury as methyl mercury and Chromium as hexavalent chromium (since toxicity of hexavalent chromium is greater than other state of chromium).

食物安全中心提供砷之建議可容忍攝入上限為無機砷，汞之建議可容忍攝入上限為有機汞及鉻之建議可容忍攝入上限為六價鉻(六價鉻較其他異價鉻毒性較大)。

6. World Health Organization assumed average body weight of Asian adult population to be 55 kilograms.

世界衛生組織假設亞洲成年人的平均體重為55公斤。

7. To calculate sample size need to reach heavy metal maximum daily intake of Arsenic, mercury and chromium, Assumptions were made:

All arsenic in sample is inorganic arsenic, all mercury in sample is methyl mercury and all chromium in sample is hexavalent chromium.

有關要達到推算砷、汞及鉻的每日最高攝取量需服用的樣品重量，分別以樣本中的砷全為無機砷、樣品中的汞全為有機汞及樣品中的鉻全為六價鉻計算。

8. Result is transferred from Castco LRN: 230306-2246.

測試結果轉錄自佳力高測試編號: 230306-2246。

Checked by :

Wong Chi Ho

Assistant Technical Manager

Yung Joe Yee

Assistant Microbiologist

Certified by :

Lo Tim Lun

Senior Manager

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For Reference only

只供參考

Microbiological Guidelines for Food (For ready-to-eat food in general and specific food items) Aug 2014 (revised) Centre for Food Safety  
食品微生物含量指引(一般即食食品及指定食品) 食物安全中心二零一四年八月(修定本)

| Food Category<br>食物類別  | Microbiological quality 微生物質量<br>Result (colony-forming unit (cfu)/g)<br>檢測結果(每克樣本的菌落形成單位) |                                    |                                |
|--|--|------------------------------------|--------------------------------|
|  | Satisfactory<br>滿意   | Borderline<br>尚可                   | Unsatisfactory<br>不滿意          |
| Table 1.2 Guidance on the interpretation of results for ACC levels [30°C / 48 hours] in various ready-to-eat foods<br>表1.2 各類即食食品所含需氧菌落計數檢測結果[攝氏30度 / 48小時]的詮釋指引 |  |                                    |                                |
| Category 8<br>類別 8   | <10 <sup>6</sup>   | 10 <sup>6</sup> - <10 <sup>8</sup> | ≥10 <sup>8</sup>               |
| Vacuum product<br>真空產品   |  |                                    |                                |
| Table 1.3 Guidance on the interpretation of results for hygiene indicator organisms in ready-to-eat food in general<br>表1.3 一般即食食品所含衛生指示微生物檢測結果的詮釋指引             |  |                                    |                                |
| <i>Escherichia coli</i> 大腸桿菌   | <20  | 20 - <10 <sup>2</sup>              | >10 <sup>2</sup>               |
| Table 2.1 Guidance on the interpretation of results for specific food borne pathogens in ready-to-eat food in general<br>表2.1 一般即食食品所含指定食源性致病菌檢測結果的詮釋指引          |  |                                    |                                |
| <i>Salmonella</i> 沙門氏菌   | n.d. in 25g<br>在 25 克樣本中沒有檢出   | N/A 不適用                            | Detected in 25g<br>在 25 克樣本中檢出 |

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**For Reference only****只供參考**

Toxic elements and metallic contaminants 有毒元素及重金屬

(Expressed with risk assessment approach 以風險評估方式表達)

| Test items<br>檢測項目         | Result(s)<br>檢測結果<br>mg/kg(ppm)<br>每公斤含毫克(百萬分率) | Daily tolerable intake inferred from recommendation <sup>4,5</sup> of CFS of FEHD (calculated based on body weight of Asian adult population <sup>6</sup> )<br>mg<br>(For reference only)<br>按香港食物環境衛生署食物安全中心建議 <sup>4,5</sup> 推算之每日可容忍攝入上限(按亞洲成年人體重作計算 <sup>6</sup> )<br>(毫克)<br>(僅供參考) | Maximum daily intake as calculated from sample maximum daily intake provided by customer (mg)<br>按客人提供之每日最高服用量計算, 所得的每日最高攝取量<br>(毫克) | Risk assessment based on normal daily uptake (For reference only)<br>以一日正常服用量計算的風險估算<br>(僅供參考) | Sample size <sup>7</sup> intake to reach the Daily tolerable intake inferred (g)<br>(For reference only)<br>要達到推算之每日可容忍攝入上限, 需服用的樣品重量 <sup>7</sup> (克)<br>(僅供參考) |
|----------------------------|---|--|--|--|--|
| 1. Arsenic content<br>砷含量  | Not Detected<br>檢測不到                            | 0.118  | Below 0.00014<br>低於0.00014   | Below tolerable intake<br>低於可容忍攝入上限  | Above 1180<br>大過1180   |
| 2. Cadmium content<br>鎘含量  | Not Detected<br>檢測不到                            | 0.046  | Below 0.000021<br>低於0.000021   | Below tolerable intake<br>低於可容忍攝入上限  | Above 2300<br>大過2300   |
| 3. Mercury content<br>汞含量  | Not Detected<br>檢測不到                            | 0.013  | Below 0.000032<br>低於0.000032   | Below tolerable intake<br>低於可容忍攝入上限  | Above 433.3<br>大過433.3   |
| 4. Lead content<br>鉛含量     | Not Detected<br>檢測不到                            | 0.066  | Below 0.000106<br>低於0.000106   | Below tolerable intake<br>低於可容忍攝入上限  | Above 660<br>大過660   |
| 5. Chromium content<br>鉻含量 | 1.1   | 0.165  | 0.0012   | Below tolerable intake<br>低於可容忍攝入上限  | 150  |
| 6. Tin content<br>錫含量      | Not Detected<br>檢測不到                            | 110  | Below 0.00106<br>低於0.00106   | Below tolerable intake<br>低於可容忍攝入上限  | Above 110000<br>大過110000   |
| 7. Antimony content<br>銻含量 | Not Detected<br>檢測不到                            | 0.33   | Below 0.000212<br>低於0.000212   | Below tolerable intake<br>低於可容忍攝入上限  | Above 1650<br>大過1650   |

\*正常服用量由客人提供: 一日服用 1 次, 一次服用 1.06 克。全日最高攝取量為 1.06 克

Normal intake as provided by customer: 1 times daily, 1.06 grams per time. Maximum intake 1.06 grams.

**End of report**

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