





Test Report

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Castco LRN: 240307-2680

Sample details as supplied by customer:-

Customer: UDA(Trading) LIMITED

Customer Ref. No.: --

Address: 北京市朝阳区酒仙桥电子城研发中心A2

Sample Name:

UndoAge PURM NMN15000

Manufacturer: --

Sample / Batch No.: 24Y2002025

Tel: 2597 8333

Fax: 2597 8399

Sample Description: each bottle 30 capsules, each capsule 500mg

Date Sampled: --

Laboratory Test Results:-

Date of sample received: 07-03-2024

Test period: 07-03-2024 to 26-03-2024

Condition when received: Room temperature

Sample container: Bottle

Conclusion(s):

- Based on test result, toxic elements and metallic contaminants arsenic, cadmium, mercury, lead, chromium, tin and antimony of submitted sample was found below the adult maximum tolerable intake of food inferred from recommendation of Centre of Food Safety of HK Food and Environmental Hygiene Department.
- The test results of the submitted sample complied with the Aerobic Plate Count, Escherichia coli & Salmonella Limits (Satisfactory) specified in the Microbiological Guidelines for Food (For Ready-to-eat Food in General and Specific Food Items) of HK Food and Environmental Hygiene Department.
- The tested organochlorine pesticides of the submitted sample were below detectable level.

Method used:

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







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Laboratory test result (cont'd):

Toxic elements and metallic contaminants

(Expressed with risk assessment approach)

(Expressed with risk	assessment app	Touch)			
Test items	Test result mg/kg(ppm)	Daily tolerable intake inferred from recommendation ^{4,5} of CFS of FEHD (calculated based on body weight of Asian adult population ⁶) mg (For reference only)	Maxmium daily intake as calculated from sample maximum daily intake provided by customer (mg)	Conclusion (For reference only)	Sample size intake to reach the Daily tolerable intake inferred ⁷ (g) (For reference only)
1. Arsenic content	Not Detected	0.118	Below 0.000066	Below tolerable intake	Above1180
2. Cadmium content	Not Detected	0.046	Below 0.00001	Below tolerable intake	Above 2300
3. Mercury content	Not Detected	0.013	Below0.000015	Below tolerable intake	Above 433.3
4. Lead content	Not Detected	0.066	Below 0.00005	Below tolerable intake	Above 660
5. Chromium content	Not Detected	0.165	Below0.0001	Below tolerable intake	Above 825
6. Tin content	Not Detected	110	Below 0.0005	Below tolerable intake	Above 110000
7. Antimony content	Not Detected	0.33	below0.0001	Below tolerable intake	Above 1650

Normal intake as provided by customer:

1 times daily,

0.5 grams per time. Maximum intake

0.5 grams.

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Laboratory test result (cont'd):

8. Organochlorine Pesticides Test

Test items	Test result mg/kg(ppm)		
-Aldrin & Dieldrin	<0.01		
-Chlordane (cis-, trans- & oxy-chlordane)	<0.02		
-DDT (p,p'-DDT, o,p'-DDT, p,p'-DDE & p,p'-TDE)	<0.2		
-Endrin	<0.01		
-Heptachlor (heptachlor & heptachlor-epoxide[Isomer-B])	<0.015		
-Hexachlorobenzene	<0.02		
-Hexachlorocyclohexane (α-,β- & δ-BHC)	<0.06		
-Lindane (γ-BHC)	<0.05		
-Quintozene (quintozene, pentachloroaniline & methyl pentachlorophenyl sulphide)	<0.15		

Microbial Testing

Test items	Test result CFU/g	
9. Aerobic Plate Count	<10	
10. E. coli count	<10	
11. Salmonella	Not detected in 25g	
12. Yeast and Mold count	<10	

NMN Purity Testing

Test items	Test result Purity ⁸ (%)
13. beta-nicotinamide mononucleotide (NMN)	100







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Laboratory test result (cont'd):

- 1. Test results only relate to the specimen tested and as received.
- 2. ppm denotes part per million, ND denotes Not detected.
- 3. 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

Aldrin, Dieldrin, trans-chlordane, cis-chlordane, Heptachlor = 0.005 mg/kg each

Oxychlordane, Endrin, H-epoxide = 0.01 mg/kg each

Hexachlorobenzene (HCB), alpha-hexachlorohexane(α-HCH), beta-hexachlorohexane(β-HCH),

delta-hexachlorohexane(δ -HCH) = 0.02 mg/kg each

p,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDT, Lindane, pentachloronitrobenzene (PCNB),

pentachloroaniline (PCA), methyl pentachlorophenylsulphide (PCAS) are 0.05mg/kg each.

4. CFS of FEHD of HKG 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

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).

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

8. The purity (%) of NMN content is presented as NMN content (mg) per claimed NMN content in sample (mg). As provided by client, claimed NMN content in sample is 500mg. Result is rounded to nearest integer.

Checked by:

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For Reference only

Microbiological Guidelines for Food (For ready	y-to-eat food in general and spe	ecific food items) Aug 2014 (re	evised) Centre for Food Safety		
Food Category	Microbiological quality Result (colony-forming unit (cfu)/g)				
	Satisfactory	Borderline	Unsatisfactory		
Table 1.2 Guidance on the interpretation o	f results for ACC levels [30	°C / 48 hours] in various rea	ady-to-eat foods		
Category 8	- <10 ⁶	10 ⁶ - <10 ⁸	≥10 ⁸		
Vacuum product					
Table 1.3 Guidance on the interpretation o	f results for hygiene indicate	or organisms in ready-to-eat	t food in general		
Escherichia coli	<20	20 - <10 ²	>102		
Table 2.1 Guidance on the interpretation o	f results for specific food bo	orne pathogens in ready-to-e	eat food in general		
Salmonella	n.d. in 25g	N/A	Detected in 25g		

End of Report