

The Rising Pili Nuts of the Philippines
Industrial Complex
- Odiongan, Romblon
Philippines

Certificate of Analysis

No. 201518866

Date : 4-12-2015

Instruction received on : 24-07-2015
Sample received : 24-07-2015
Sample said to be : Pili nuts
Packing : not a normally used packing
Sample quantity : 1.076,00 gr
Sample temperature : Ambient
Sample sealed : No
Marked : Pili kernel + testa (Aseptically de-shelled)

Test Results:

Metal and Element analysis

Calcium (Ca) (ICP-MS, NEN-EN 13805, in-house method NL/26)	1243,00 mg/kg
 Iron (Fe) (ICP-MS, NEN-EN 13805, in-house method NL/26)	27,39 mg/kg
Magnesium (Mg) (ICP-MS, NEN-EN 13805, in-house method NL/26)	2544,00 mg/kg
Phosphorous (P) (ICP-MS, NEN-EN 13805, in-house method NL/26)	6599,00 mg/kg
Potassium (K) (ICP-MS, NEN-EN 13805, in-house method NL/26)	7221,00 mg/kg
 Zinc (Zn) (ICP-MS, NEN-EN 13805, in-house method NL/26)	25,00 mg/kg
 Manganese (Mn) (ICP-MS, NEN-EN 13805, in-house method NL/26)	31,97 mg/kg
 Selenium (Se) (ICP-MS, NEN-EN 13805, in-house method NL/26)	0,76 mg/kg

General

Cholesterol 13,95 mg/kg

* Amino-acid:

* Taurine	less than 0,05 %
* Aspartic acid	1,5 %
* Threonine	0,5 %
* Serine	0,54 %
* Glutamic acid	3,47 %
* Proline	0,81 %
* Glycine	0,8 %

* : outsourced

 : accredited method (accreditation number L440)

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* Alanine	0,43 %
* Valine	0,69 %
* Cystine	0,27 %
* Methionine	0,44 %
* Isoleucine	0,5 %
* Leucine	0,94 %
* Tyrosine	0,36 %
* Phenylalanine	0,69 %
* beta-Aminobutyric acid	less than 0,05 %
* Ornithine	less than 0,05 %
* Lysine	0,44 %
* 1-Methyl histadine	0,43 %
* Histidine	0,43 %
* 3-Methyl histidine	0,43 %
* Arginine	1,61 %

Vitamin

* Vitamin A	475 IU/kg
* Vitamin E	2200 mg/kg
* Vitamin C	less than 20,0 mg/kg

Other analysis
Nutritional value (Big 8)

Moisture	3,3 %
Protein (%N*6,25)	13,47 %
Fat	72,34 %
Ash (550°C)	2,98 %
Fibre	6,22 %
Carbohydrates (Total) (calculated)	2,00 %
Sugars	less than 0,01 %
Saturated fatty acids	30,80 %
Monounsaturated fatty acids	33,20 %
Polyunsaturated fatty acids	8,30 %
Sum Trans fatty acids	less than 0,10 %

Starting date microbiological investigation: 24-07-2015

 E.Coli (conform ISO 16649-02)	less than 10 cfu/g
 Aerobic Plate Count (conform ISO 4833 at 30°C)	8,0E5 cfu/g
 Enterobacteriaceae (conform ISO 21528-2)	2,7E3 cfu/g
Yeasts (equal to NEN-ISO 21527-2)	4,7E2 cfu/g

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Moulds (equal to NEN-ISO 21527-2)	1,0E3 cfu/g
 Moulds & Yeast (conform NEN-ISO 21527-2)	1,5E3 cfu/g
 Coliforms (conform ISO 4832)	1,5E3 cfu/g
 Salmonella (Vidas easy SLM eq. ISO 6579)	not detected
Lypolytic Bacteria	Micro-organism present but less than 40 cfu/g
Staphylococcus aureus (conform ISO 6888-2)	less than 50 cfu/g
Clostridium perfringens (ISO 7937)	less than 10 cfu/g
 Bacillus cereus (conform ISO 7932)	Micro-organism present but less than 200 cfu/g
Anaerobe Mesophilic Spore Formers (eq. ISO 4833, anaerobic at 30°C)	Micro-organism present but less than 40 cfu/g
Sulfite reducing bacteria (ISO 15213)	less than 10 cfu/g
Aerobe Mesophilic Spore Formers (eq. ISO 4833, aerobic at 30°C)	9,0E1 (estimated) cfu/g

Nofalab B.V.
M. Bruggeman
Deputy Director

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