

Test Report No: 115138/04

Page 1 of 2

Client:
**SUSTAINABLE WORLD ENERGY SL
 C / PROVENCALS 10
 ES-8019 BARCELONA**
Test object: Cassava-Yuca Flakes

 Date of Receipt: 2015-04-08
 Container: Plastic bag
 Designation: Cassava Yuca Flakes
 Compiler:

Property	Unit	Result	Test Method
Moisture			DIN 51718
as-received	% (m/m)	13,6	
as-determined	% (m/m)	6,0	
Ash content			DIN 51719
as-received	% (m/m)	3,61	
as-determined	% (m/m)	3,93	
dry	% (m/m)	4,18	
Fixed carbon			DIN 51720
as-received	% (m/m)	12,7	
as-determined	% (m/m)	13,8	
dry	% (m/m)	14,7	
Volatile matter			DIN 51720
as-received	% (m/m)	70,1	
as-determined	% (m/m)	76,3	
dry	% (m/m)	81,1	
Calorific value, gross			DIN 51900
as-received	MJ/kg	15,47	
as-determined	MJ/kg	16,84	
dry	MJ/kg	17,91	
Calorific value, net			DIN 51900
as-received	MJ/kg	14,15	
as-determined	MJ/kg	15,61	
dry	MJ/kg	16,77	
Elementary analysis, Carbon			DIN EN 15104 ¹
as-received	% (m/m)	38,70	
as-determined	% (m/m)	42,10	
dry	% (m/m)	44,80	
Elementary analysis, Hydrogen			DIN EN 15104 ¹
as-received	% (m/m)	6,10	
as-determined	% (m/m)	5,60	
dry	% (m/m)	5,20	
Elementary analysis, Nitrogen			DIN EN 15104 ¹
as-received	% (m/m)	0,91	
as-determined	% (m/m)	1,05	
dry	% (m/m)	1,12	

Remark:

The test results are only valid for the analysed sample. The utilisation of the report for advertising purposes, or reference to it in publications, requires the permission of Intertek (Schweiz) AG. Details of the analyses (norms, SOPs), as well as limits of detection and standard deviations can be obtained from Intertek (Schweiz) AG. Files, including reports, are retained for ten years at Intertek (Schweiz) AG. The raw data is held at Intertek (Schweiz) AG for ten years. The sample is held at Intertek (Schweiz) AG for at least one month after the report has been completed.

¹ Subcontractor, ² Method not accredited

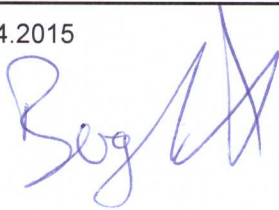
Test Report No: 115138/04

Page 2 of 2

Property	Unit	Result	Test Method
Sulfur			DIN EN 15289 ¹
as-received	% (m/m)	0,101	
as-determined	% (m/m)	0,110	
dry	% (m/m)	0,117	
Chlorine (dry)	% (m/m)	0,06	DIN EN 15289 ¹
Mercury (dry)	mg/kg	<0.05	EN 1483 ¹
Trace Elements			DIN EN ISO 17294-2 ¹
As Arsen	mg/kg	<0,8	
Al Aluminium	mg/kg	810	
Ba Barium	mg/kg	25	
Ca Calcium	mg/kg	4500	
Cd Cadmium	mg/kg	<0,2	
Cr Chromium	mg/kg	2	
Fe Iron	mg/kg	350	
Mg Magnesium	mg/kg	910	
Mn Manganese	mg/kg	31	
Mo Molybdenum	mg/kg	<2	
Na Sodium	mg/kg	44	
Ni Nickel	mg/kg	<1	
P Phosphorus	mg/kg	590	
Pb Lead	mg/kg	<2	
Si Silicon	mg/kg	2080	
Ti Titanium	mg/kg	37	
V Vanadium	mg/kg	<1	
Zn Zinc	mg/kg	34	
Co Cobalt	mg/kg	<1	
K Potassium	mg/kg	11900	

Schlieren, 24.04.2015

Project Leader:



A. Bergthold


 STS-Nr. 0452
 Februar 2006

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