



Bio Green Wax Ltd

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CERTIFICATE OF ANALYSIS

Product name: **BIO PALM ULTRA 52-54**

Product description: **RSPO certified RBD Palm Stearin**

ANALYSIS	STANDARD	RESULT	METHOD
Color Lovibond 5.25" cell, Red	2.5 Max	2.2	AOCS Ce 13e-92
Iodine Value (WIJS), g I/100g	30 - 35	34.25	AOCS CA 1b-87
Slip Melting Point, °C	52 - 55	53.4	AOCS Ce 3-25
Peroxide Value, meq/kg	1.0 Max	0.90	AOCS Cd 8b-90
Moisture & Impurities, % wt	0.1 Max	0.040	AOCS Ca 2b-38
Free Fatty Acid, % wt (as Palmitic Acid)	0.1 Max	0.080	AOCS Ca 5a-40
Smell	Normal	Normal	Organoleptic
Appearance	Solid	Solid	Visual
Taste	Bland	Bland	Organoleptic

Solid Fat Content at temperature:

20°C, %	67 - 73	67.78	IUPAC 2.150a
25°C, %	55 - 61	56.46	IUPAC 2.150a
30°C, %	44 - 50	45.46	IUPAC 2.150a
35°C, %	35 - 41	36.64	IUPAC 2.150a
40°C, %	26 - 32	28.46	IUPAC 2.150a

Microbiology:

Total Plate Count, Col/gram	10 ⁴ Max	30	FDA - BAM Chapter 3
Coliform, MPN	10 Max	<3	FDA - BAM Chapter 4
Escherichia Coli, MPN	<3	<3	FDA - BAM Chapter 4
Salmonella, Col/25gram	Negative	Negative	FDA - BAM Chapter 5
Staphylococcus aureus, Col/gram	10 ³ Max	0	FDA - BAM Chapter 12
Enterobacteriaceae, Col/gram	10 ³ Max	0	ISO 21528-2:2008

Note: The analysis result mentioned above is at the time/date of product released

Trace Metal:

Arsenic (As), ppm	0.1 Max	<0.013	MU/MAKMIN/13 (SSA)
Iron (Fe), ppm	1.5 Max	0.72	AOAC 999.11 (9.1.09.2011)
Copper (Cu), ppm	0.1 Max	<0.008	AOAC 999.11 (9.1.09.2011)
Nickel (Ni), ppm	0.1 Max	<0.020	AOAC 999.11 (9.1.09.2011)
Lead (Pb), ppm	0.1 Max	0.073 x 10 ⁻³	AOAC 999.11 (9.1.09.2011)
Mercury (Hg), ppm	0.05 Max	<0.005	MU/MAKMIN/12 (SSA)
Cadmium (Cd), ppm	0.1 Max	5.14 x 10 ⁻³	AOAC 999.11 (9.1.09.2011)

