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Earth Circle Organics
 Raw and Wholesome Food for Vibrant Living
 12745 Earhart Ave
 Auburn, CA 95602
 Ph: 530-273-3663
 Fx: 530-273-3223
www.earthcircleorganics.com

Certificate of Analysis

Product Name:	Organic Coconut Sugar
Product SKU:	COS
Manufacturer Lot Number:	160802-2
ECO Lot Number:	334001B
Country of Origin:	Indonesia
Production Date:	August 2016
Best Before Date:	August 2019

Parameter	Result	Specification	Methods
Chemical			
Moisture Content (% v/w)	2.57	≤3	SNI 01-2891-1992 Point 5.1
Ash Content (% v/w)	2.87	≤3	SNI 01-2891-1992 Point 6.1
Sucrose (% v/w)	≥75	≥75	IKP/K 2 Titrimetric
Reduction Sugar (% v/w)	≤10	≤10	IKP/K 2 Titrimetric
Total Sugar as Invert (% v/w)	<90	<90	IKP/K 2 Titrimetric
Physical			
Appearance	Powder	Pass	-
Color	Light Brown	Light Brown	-
Flavor	Sweet	Sweet	-
Mesh Size	Pass	12	-
Microbiological			
Total Plate Count (cfu/g)	1.0×10^4	$<1 \times 10^4$	ISO 4883.2003 Pour Plate
Total Yeast (cfu/g)	$<4.0 \times 10^1$	$<1 \times 10^3$	ISO 21527-1.2008 Spread Plate
Total Mold (cfu/g)	$<4.0 \times 10^1$	$<1 \times 10^3$	ISO 21527-1.2008 Spread Plate
Salmonella (in 25g)	Negative	Negative	ISO 6579.2002 Isolation
Escherichia Coli (MPN/g)	<0.3	<3	ISO 7251.2005 MPN
Listeria monocytogenes (in 25g)	Negative	Negative	ISO 11290-1.1996 Isolation

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Certificate of Analysis

Product Name:	Organic Coconut Sugar
Product SKU:	COS
Manufacturer Lot Number:	160803-1
ECO Lot Number:	334001A
Country of Origin:	Indonesia
Production Date:	August 2016
Best Before Date:	August 2019

Parameter	Result	Specification	Methods
Chemical			
Moisture Content (% v/w)	2.42	≤3	SNI 01-2891-1992 Point 5.1
Ash Content (% v/w)	2.83	≤3	SNI 01-2891-1992 Point 6.1
Sucrose (% v/w)	≥75	≥75	IKP/K 2 Titrimetric
Reduction Sugar (% v/w)	≤10	≤10	IKP/K 2 Titrimetric
Total Sugar as Invert (% v/w)	<90	<90	IKP/K 2 Titrimetric
Physical			
Appearance	Powder	Pass	-
Color	Light Brown	Light Brown	-
Flavor	Sweet	Sweet	-
Mesh Size	Pass	12	-
Microbiological			
Total Plate Count (cfu/g)	2.7×10^2	$<1 \times 10^4$	ISO 4883.2003 Pour Plate
Total Yeast (cfu/g)	$<4.0 \times 10^1$	$<1 \times 10^3$	ISO 21527-1.2008 Spread Plate
Total Mold (cfu/g)	$<4.0 \times 10^1$	$<1 \times 10^3$	ISO 21527-1.2008 Spread Plate
Salmonella (in 25g)	Negative	Negative	ISO 6579.2002 Isolation
Escherichia Coli (MPN/g)	<0.3	<3	ISO 7251.2005 MPN
Listeria monocytogenes (in 25g)	Negative	Negative	ISO 11290-1.1996 Isolation

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Certificate of Analysis

Product Name:	Organic Coconut Sugar
Product SKU:	COS
Manufacturer Lot Number:	160804-1
ECO Lot Number:	334001C
Country of Origin:	Indonesia
Production Date:	August 2016
Best Before Date:	August 2019

Parameter	Result	Specification	Methods
Chemical			
Moisture Content (% v/w)	2.23	≤3	SNI 01-2891-1992 Point 5.1
Ash Content (% v/w)	2.83	≤3	SNI 01-2891-1992 Point 6.1
Sucrose (% v/w)	≥75	≥75	IKP/K 2 Titrimetric
Reduction Sugar (% v/w)	≤10	≤10	IKP/K 2 Titrimetric
Total Sugar as Invert (% v/w)	<90	<90	IKP/K 2 Titrimetric
Physical			
Appearance	Pass	Powder	-
Color	Pass	Light Brown	-
Flavor	Pass	Sweet	-
Mesh Size	Pass	12	-
Microbiological			
Total Plate Count (cfu/g)	6.9 x 10 ²	<1 x 10 ⁴	ISO 4883.2003 Pour Plate
Total Yeast (cfu/g)	<4.0 x 10 ¹	<1 x 10 ³	ISO 21527-1.2008 Spread Plate
Total Mold (cfu/g)	<4.0 x 10 ¹	<1 x 10 ³	ISO 21527-1.2008 Spread Plate
Salmonella (in 25g)	Negative	Negative	ISO 6579.2002 Isolation
Escherichia Coli (MPN/g)	<0.3	<3	ISO 7251.2005 MPN
Listeria monocytogenes (in 25g)	Negative	Negative	ISO 11290-1.1996 Isolation

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 10/05/2016



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Certificate of Analysis

Product Name:	Organic Coconut Sugar
Product SKU:	COS
Manufacturer Lot Number:	1606172
ECO Lot Number:	313901A
Country of Origin:	Indonesia
Production Date:	June, 2016
Best Before Date:	June, 2019

Parameter	Result	Specification	Methods
Chemical			
Moisture Content	2.77	≤3	SNI 01-2891-1992 Point 5.1
Ash Content	2.34	≤3	SNI 01-2891-1992 Point 6.1
Sucrose	≥75	≥75	IKP/K 2 Titrimetric
Reduction Sugar	≤10	≤10	IKP/K 2 Titrimetric
Total Sugar as Invert	<90	<90	IKP/K 2 Titrimetric
Physical			
Appearance	Characteristic	Characteristic	-
Color	Light Brown	Light Brown	-
Flavor	Sweet	Sweet	-
Mesh Size	Pass	12	-
Microbiological			
Total Plate Count (cfu/g)	<1 x 10 ²	<1 x 10 ⁴	ISO 4883.2003 Pour Plate
Total Yeast (cfu/g)	<10	<1 x 10 ³	ISO 21527-1.2008 Spread Plate
Total Mold (cfu/g)	<10	<1 x 10 ³	ISO 21527-1.2008 Spread Plate
Salmonella (In 25g)	Negative	Negative	ISO 6579.2002 Isolation
Escherichia Coli (MPN/g)	<0.3	<3	ISO 7251.2005 MPN
Listeria monocytogenes (in 25g)	Negative	Negative	ISO 11290-1.1996 Isolation

received
 08/24/2016
J. Ren



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Certificate of Analysis

Product Name:	Organic Coconut Sugar
Product SKU:	COS
Manufacturer Lot Number:	1606131
ECO Lot Number:	313801C
Country of Origin:	Indonesia
Production Date:	June, 2016
Best Before Date:	June, 2019

Parameter	Result	Specification	Methods
Physical			
Appearance	Characteristic	Characteristic	-
Color	Light Brown	Light Brown	-
Flavor	Sweet	Sweet	-
Mesh Size	12	12	-
Microbiological			
Total Plate Count (cfu/g)	7.5×10^2	$<1 \times 10^4$	ISO 4883:2003 Pour Plate
Total Yeast (cfu/g)	<10	$<1 \times 10^3$	ISO 21527-1:2008 Spread Plate
Total Mold (cfu/g)	<10	$<1 \times 10^3$	ISO 21527-1:2008 Spread Plate
Salmonella (In 25g)	Negative	Negative	ISO 6579:2002 Isolation
Escherichia Coli (MPN/g)	<0.3	<3	ISO 7251:2005 MPN
Listeria monocytogenes (In 25g)	Negative	Negative	ISO 11290-1:1996 Isolation
Chemical			
Moisture Content	2.07	≤ 3	SNI 01-2891-1992 Point 5.1
Ash Content	2.43	≤ 3	SNI 01-2891-1992 Point 6.1
Sucrose	≥ 75	≥ 75	IKP/K 2 Titrimetric
Reduction Sugar	≤ 10	≤ 10	IKP/K 2 Titrimetric
Total Sugar as Invert	<90	<90	IKP/K 2 Titrimetric

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 08/06/2016
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