

Technical Data Sheet

Name	Quito Oro
Producer	Olam Cocoa BV <ul style="list-style-type: none"> Stationsstraat 76, 1541LJ Koog aan de Zaan, The Netherlands
Product	Cocoa mass <i>Made from Arriba fine flavor beans from Ecuador, with the possible addition of West-African cocoa butter (max. 2%).</i>

Organoleptic Characteristics

Parameter	Value	Method
Colour	Meets standard	Internal method
Flavour	Meets standard	ICA 6/1963

Physical and Chemical characteristics

Parameter	Value	Method
Fat content (% on dry substance)	53.0% min	ICA 37/1990 (Extraction with petroleum ether)
pH (in 10% solution)	5.3 – 6.0	ICA 15/1972
Fineness (through 75 µm sieve)	99.5% min.	ICA 38/1990 (Water suspension)
Moisture content	1.5% max.	ICA 1/1952

Microbiological characteristics

Parameter	Value	Method
Standard Plate Count (cfu/g)	5000 max. (median 300)	ICA 39/1990
Moulds (cfu/g)	50 max. (median 5)	ICA 39/1990
Yeasts (cfu/g)	50 max. (median 5)	ICA 39/1990
Enterobacteriaceae (per g)	Negative to test	ICA 39/1990
E. coli (per g)	Negative to test	ICA 39/1990
Salmonella (per 4x375g)*	Negative to test	ICA 39/1990

* Sampled according to the US FDA Bacteriological Analytical Manual for Foods, Food Category I

Olam International Limited

7 Straits View · Marina One East Tower #20-01, Singapore 018936 · +65 6339 4100 (phone) · +65 6339 9755 (fax) · www.olamgroup.com

The information contained herein is correct as of the date of this document to the best of our knowledge. Any recommendations or suggestions are made without guarantee or representation as to results and are subject to change without notice. We suggest you evaluate any recommendations and suggestions independently. We disclaim any and all warranties, whether express or implied, and specifically disclaim the implied warranties of merchantability, fitness for a particular purpose and non-infringement. Our responsibility for claims arising from any claim for breach of warranty, negligence or otherwise shall not include consequential, special or incidental damages, and is limited to the purchase price of material purchased from us. None of the statements made here shall be construed as a grant, either express or implied, of any license under any patent held by Olam or other parties. Customers are responsible for obtaining any licenses or other rights that may be necessary to make, use or sell products containing Olam ingredients.

Technical Data Sheet

(EN) Storage – see back of pack. (FR) Conservation - voir au dos de l'emballage. (DE) Lagerung - siehe Packungsrückseite. (NL) Opslag - zie achterkant verpakking. (DA) Opbevaring – se bagsiden af emballagen. (IT) Conservazione: vedere sul retro della confezione. (ES) Conservación: ver parte posterior del envase. (PT) Armazenamento - veja o verso da embalagem. (GR) Αποθήκευση - βλέπε το πίσω μέρος της συσκευασίας. (SV) Förvaring – se förpackningens baksida (PL) Przechowywanie - patrz tył opakowania. (RO) Depozitare - vezi partea din spate a ambalajului.

(EN) Best before – see front of pack. (FR) À consommer de préférence avant - voir le devant de l'emballage. (DE) Haltbarkeit - siehe Packungsvorderseite. (NL) Ten minste houdbaar tot - zie voorkant verpakking. (DA) Bedst før – se forsiden af emballagen. (IT) Da consumarsi preferibilmente entro - vedere la parte anteriore della confezione. (ES) Consumir antes de: ver parte anterior del envase (PT) Consumir de preferência antes de - veja a frente da embalagem. (GR) Ανάλωση κατά προτίμηση πριν - βλέπε το μπροστινό μέρος της συσκευασίας. (SV) Bäst före – se förpackningens framsida. (PL) Najlepiej spożyć przed - patrz przód opakowania. (RO) Cel mai bun înainte - consultați partea din față a ambalajului.

Kosher  certified

Halal  certified

Olam International Limited

7 Straits View · Marina One East Tower #20-01, Singapore 018936 · +65 6339 4100 (phone) · +65 6339 9755 (fax) · www.olamgroup.com

The information contained herein is correct as of the date of this document to the best of our knowledge. Any recommendations or suggestions are made without guarantee or representation as to results and are subject to change without notice. We suggest you evaluate any recommendations and suggestions independently. We disclaim any and all warranties, whether express or implied, and specifically disclaim the implied warranties of merchantability, fitness for a particular purpose and non-infringement. Our responsibility for claims arising from any claim for breach of warranty, negligence or otherwise shall not include consequential, special or incidental damages, and is limited to the purchase price of material purchased from us. None of the statements made here shall be construed as a grant, either express or implied, of any license under any patent held by Olam or other parties. Customers are responsible for obtaining any licenses or other rights that may be necessary to make, use or sell products containing Olam ingredients.

Allergens and sensitizers information

Name **Quito Oro**

Producer **Olam Cocoa BV**

- Stationsstraat 76, 1541LJ Koog aan de Zaan, The Netherlands

Declarable allergens EU ¹ and USA ²	Part of recipe	Used on shared line	As raw material in factory	Comments
Gluten	No	No	No	<20 ppm gluten
- Wheat	No	No	No	
- Rye	No	No	No	
- Barley	No	No	No	
- Oats	No	No	No	
- Spelt	No	No	No	
- Kamut	No	No	No	
Crustaceans	No	No	No	
Egg	No	No	No	
Fish	No	No	No	
Peanuts	No	No	No	
Soy	No	No	No	
Milk	No	No	No	
(Tree) Nuts	No	No	No	
- Almonds	No	No	No	
- Hazelnuts	No	No	No	
- Walnuts	No	No	No	
- Cashews	No	No	No	
- Pecan nuts	No	No	No	
- Brazil nuts	No	No	No	
- Pistachio nuts	No	No	No	
- Macademia/Queensland nuts	No	No	No	
- Beech nut	No	No	No	
- Butter nut	No	No	No	
- Chestnut	No	No	No	
- Chinquapin	No	No	No	
- Coconut	No	No	No	
- Ginkonut	No	No	No	
- Hickory nut	No	No	No	
- Lichee nut	No	No	No	
- Pine nut	No	No	No	
- Pistachio	No	No	No	
- Sheanut	No	No	No	
Celery	No	No	No	
Mustard	No	No	No	
Sesame	No	No	No	
Sulphur dioxide and sulphites (expressed as SO ₂) >10ppm	No	No	No	Approximately 2ppm sulphites present by nature, none added
Lupin	No	No	No	
Molluscs	No	No	No	

Allergens and sensitizers information

Additional allergens EU: LeDa list v2.0 – 2011	Part of recipe	Used on shared line	As raw material in factory	Comments
Lactose	No	No	No	
Cocoa	Yes	Yes	Yes	The product is cocoa
Glutamate (E620 – E625)	No	No	No	Natural presence of glutamic acid in/from the cocoa protein, none added
Corn/maize	No	No	No	
Legumes	No	No	No	
Beef	No	No	No	
Pork	No	No	No	
Carrot	No	No	No	
Additional allergens – Japan: CAA list – 2013	Part of recipe	Used on shared line	As raw material in factory	Comments
Abalone	No	No	No	
Chicken (poultry)	No	No	No	
Crab	No	No	No	
Gelatin	No	No	No	
Mackarel				
Shrimp/prawn	No	No	No	
Salmon	No	No	No	
Salmon roe	No	No	No	
Squid	No	No	No	
Apples	No	No	No	
Banana				
Kiwifruit	No	No	No	
Mango	No	No	No	
Oranges	No	No	No	
Peaches	No	No	No	
Mushrooms	No	No	No	
Yams	No	No	No	
Buckwheat	No	No	No	
Other substances of potential interest	Part of recipe	Used on shared line	As raw material in factory	Comments
Animal products (other)	No	No	No	
Antioxidants	No	No	No	Natural presence of antioxidants, none added
Artificial (AZO) colors	No	No	No	
- E102 Tartrazine	No	No	No	
- E104 Quinoline yellow	No	No	No	
- E110 Sunset Yellow FCF Orange Yellow S	No	No	No	
- E122 Azorubine	No	No	No	
- E124 Ponceau 4R Cochineal Red A	No	No	No	
- E129 Allura Red AC	No	No	No	
- Other	No	No	No	
Artificial sweeteners	No	No	No	

The information contained herein is correct as of the date of this document to the best of our knowledge. Any recommendations or suggestions are made without guarantee or representation as to results and are subject to change without notice. We suggest you evaluate any recommendations and suggestions independently. We disclaim any and all warranties, whether express or implied, and specifically disclaim the implied warranties of merchantability, fitness for a particular purpose and non-infringement. Our responsibility for claims arising from any claim for breach of warranty, negligence or otherwise shall not include consequential, special or incidental damages, and is limited to the purchase price of material purchased from us. None of the statements made here shall be construed as a grant, either express or implied, of any license under any patent held by Olam or other parties. Customers are responsible for obtaining any licenses or other rights that may be necessary to make, use or sell products containing Olam ingredients.

Allergens and sensitizers information

Benzoic acid and parabens (E210 – E219)	No	No	No	Approximately 8ppm benzoic acid present by nature, none added
BHA/BHT	No	No	No	
Cottonseed flour	No	No	No	
Flavors (artificial and/or natural)	No	No	No	
Latex	No	No	No	
Leguminosae	No	No	No	
Phenylalanine	No	No	No	Natural presence in the cocoa protein, none added
Phosphates	No	No	No	
Preservatives (added)	No	No	No	
Sorbic acid	No	No	No	
Spices	No	No	No	
- Cinnamon	No	No	No	
- Coriander	No	No	No	
- Vanilla	No	No	No	
- Cardamom	No	No	No	
- Clove	No	No	No	
- Nutmeg	No	No	No	
Vanillin	No	Yes	Yes	Possible traces due to cross contamination
Sugars	No	No	No	Natural presence, none added
- Saccharose (sucrose)	No	No	No	
- Glucose	No	No	No	
- Fructose	No	No	No	
Umbelliferae	No	No	No	
Vegetable extracts	No	No	No	
Vegetable protein	No	No	No	Cocoa contains protein by nature, none added
Vitamins	No	No	No	Naturally present, none added
Yeast	No	No	No	

¹ EU: Regulation 1169/2011

² USA: Food Allergen Labeling and Consumer Protection Act of 2004 (Public Law 108-282, Title II)

Indicative Nutritional Information

Name	Cocoa mass DZNM5023
Producer	Olam Cocoa BV Stationsstraat 76, 1541LJ Koog aan de Zaan, The Netherlands

Main components

Total fat	55.0	g/100g	Calcium	80	mg/100g
Moisture	1.0	g/100g	Chloride	10	mg/100g
Protein	11.9	g/100g	Magnesium	280	mg/100g
Dietary Fiber	16.6	g/100g	Phosphorous	400	mg/100g
Organic acids	2.1	g/100g	Potassium	1000	mg/100g
Carbohydrates ¹	7.0	g/100g	Sodium	10	mg/100g
- Of which starch	6.5	g/100g	- Salt (2.5 x [Na]) ¹	25	mg/100g
- Of which sugars	0.5	g/100g	Iron	18	mg/100g
- Added sugars	0.0	g/100g	Zinc	4	mg/100g
- Polyols	0.0	g/100g	Copper	2	mg/100g
Theobromine	1.1	g/100g			
Caffeine	0.1	g/100g			
Ash	3.1	g/100g			

Minerals

Fat

Saturated fat	34.0	g/100g	Vitamin A	<50	IU/100g
Mono-unsaturated fat	19.0	g/100g	Vitamin B1 (thiamine)	0.1	mg/100g
Poly-unsaturated fat	2.0	g/100g	Vitamin B2 (riboflavin)	0.3	mg/100g
Trans fat	<0.1	g/100g	Vitamin B3 (niacin)	1.0	mg/100g
Cholesterol	3	mg/100g	Vitamin B5 (pantothenic acid)	2.1	mg/100g

Vitamins

Vitamin C	<0.1	mg/100g
Vitamin D	<0.05	µg/100g
Vitamin E	17.5	IU/100g

Energy ¹

Energy	610	kcal/100g
	2516	kJ/100g
Energy from fat	495	kcal/100g
	2035	kJ/100g

¹ Energy, carbohydrates and salt calculated according to Regulation (EU) 1169/2011

Olam International Limited

7 Straits View · Marina One East Tower #20-01, Singapore 018936 · +65 6339 4100 (phone) · +65 6339 9755 (fax) · www.olamgroup.com

Nutrient content information is indicative of composition but not intended as definitive or complete. It is not intended for use in determining specific nutrient labeling values in finished products containing this ingredient as the responsibility for determining label information lies with the finished product manufacturer. Organic matter such as contained in products of this nature is subject to variation in nutritional composition. We disclaim any and all warranties, whether express or implied, including the implied warranty of merchantability. Our responsibility for claims arising from breach of warranty, negligence or any other cause shall not include consequential, special or incidental damages, even if we have been made aware of the possibility of such damages, and is limited to the purchase price of the product. None of the statements made herein shall be construed as a grant, either express or implied, of any licence under any patent held by Olam or other parties.