

Technical Data Sheet (US)

Code: D-11-R

Date: 1-Jan-2023

Supersedes: 1-Feb-2022

| | |
|-----------------|---|
| Name | D-11-R |
| Product | Cocoa processed with alkali * |
| Producer | Olam Cocoa BV |
| | Stationsstraat 76, 1541LJ Koog aan de Zaan, The Netherlands |
| | Veerdijk 18, 1531MS Wormer, The Netherlands |

Organoleptic Characteristics

| Parameter | Value | Method |
|-----------|----------------|-----------------|
| Color | Meets standard | Internal method |
| Flavor | Meets standard | ICA 6/1963 |

Physical and Chemical characteristics

| Parameter | Value | Method |
|--------------------------------|--------------|---|
| Fat content | 10.0 – 12.0% | ICA 37/1990 (Extraction with petroleum ether) |
| pH (in 10% solution) | 7.6 – 8.0 | ICA 15/1972 |
| Fineness (through 75 µm sieve) | 99.5% min. | ICA 38/1990 (Water suspension) |
| Moisture content | 5.0% max. | ICA 1/1952 |

Microbiological characteristics

| Parameter | Value | Method |
|------------------------------|------------------|-------------|
| Standard plate count (cfu/g) | 5000 max. | ISO 4833-1 |
| Molds (cfu/g) | 50 max. | ICA 39/1990 |
| Yeasts (cfu/g) | 50 max. | ICA 39/1990 |
| Enterobacteriaceae (per g) | Negative to test | ISO 21528-1 |
| E. coli (per g) | Negative to test | ICA 39/1990 |
| Salmonella (per 4x375g)** | Negative to test | ISO 6579-1 |

* <3% alkalinizing agents (potassium carbonate) on nib, expressed as potassium carbonate

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

A certificate of analysis is supplied with each product lot shipped.

Storage

The optimum storage conditions are at 15-20°C (55-65°F) with RH<50% in a clean, dry, well-ventilated area, away from strong odors.

Certification options

Rainforest Alliance



Fairtrade



Kosher



certified

Halal



certified

***Certification status must be confirmed in the contract]

Olam International Limited

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Indicative Nutritional Information

Name **Cocoa powder type D-11-R**

Producer **Olam Cocoa BV**

- Stationsstraat 76, 1541LJ Koog aan de Zaan, The Netherlands
- Veerdijk 18, 1531MS Wormer, The Netherlands

Main components

| | | |
|----------------------------------|------|--------|
| Total fat | 11 | g/100g |
| Moisture | 4 | g/100g |
| Protein | 22 | g/100g |
| Total carbohydrates ¹ | 48.7 | g/100g |
| Theobromine | 2.1 | g/100g |
| Caffeine | 0.2 | g/100g |
| Ash | 12 | g/100g |

Minerals

| | | |
|-------------|------|---------|
| Calcium | 150 | mg/100g |
| Chloride | 10 | mg/100g |
| Magnesium | 550 | mg/100g |
| Phosphorous | 700 | mg/100g |
| Potassium | 5000 | mg/100g |
| Sodium | 30 | mg/100g |
| Iron | 35 | mg/100g |
| Zinc | 7 | mg/100g |
| Copper | 4 | mg/100g |

Fat

| | | |
|----------------------|-------|---------|
| Saturated fat | 6.8 | g/100g |
| Mono-unsaturated fat | 3.8 | g/100g |
| Poly-unsaturated fat | 0.4 | g/100g |
| Trans fat | <0.01 | g/100g |
| Cholesterol | <1 | mg/100g |

Vitamins

| | | |
|-------------------------------|-------|---------|
| Vitamin A | <50 | IU/100g |
| Vitamin B1 (thiamine) | 0.1 | mg/100g |
| Vitamin B2 (riboflavin) | 0.3 | mg/100g |
| Vitamin B3 (niacin) | 2.0 | mg/100g |
| Vitamin B5 (pantothenic acid) | 1.5 | mg/100g |
| Vitamin C | <0.1 | mg/100g |
| Vitamin D | <0.05 | µg/100g |
| Vitamin E | 5.0 | IU/100g |

Carbohydrates

| | | |
|-------------------|------|--------|
| Dietary fiber | 32.0 | g/100g |
| - Soluble fiber | 5.5 | g/100g |
| - Insoluble fiber | 26.5 | g/100g |
| Starch | 11.5 | g/100g |
| Organic Acids | 4 | g/100g |
| Sugars | 1 | g/100g |
| - Added sugars | 0 | g/100g |

Energy ²

| | | |
|-----------------|-----|-----------|
| Energy | 276 | kcal/100g |
| Energy from fat | 99 | kcal/100g |

¹ Total carbohydrates are defined here as 100 – (fat + moisture + protein + theobromine + caffeine + ash)

² Energy calculated according to USDA handbook 74 (revised).

Caloric values: 9 kcal/g for fat; 4 kcal/g for protein and carbohydrates less the amount of insoluble fiber

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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.

Allergens and sensitizers information

Name **Cocoa powder type D-11-R**

Producer **Olam Cocoa BV**

- **Stationsstraat 76, 1541LJ Koog aan de Zaan, The Netherlands**
- **Veerdijk 18, 1531MS Wormer, 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 | |
| - Macadamia/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 | |
| - Ginko nut | No | No | No | |
| - Hickory nut | No | No | No | |
| - Lichee nut | No | No | No | |
| - Pine nut | No | No | No | |
| - Pili nut | 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 | +/- 2ppm present by nature, none added |
| Lupin | No | No | No | |
| Molluscs | No | No | No | |

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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 (Leguminosae) | No | No | No | |
| Beef | No | No | No | |
| Pork | No | No | No | |
| Carrot | No | No | No | |
| Additional allergens – Japan: CAA list – 2019³ | Part of recipe | Used on shared line | As raw material in factory | Comments |
| Abalone | No | No | No | |
| Apple | No | No | No | |
| Banana | No | No | No | |
| Buckwheat | No | No | No | |
| Chicken (poultry) | No | No | No | |
| Crab | No | No | No | |
| Gelatin | No | No | No | |
| Kiwifruit | No | No | No | |
| Mackerel | No | No | No | |
| Mushrooms | No | No | No | |
| Oranges | No | No | No | |
| Peaches | No | No | No | |
| Salmon | No | No | No | |
| Salmon roe | No | No | No | |
| Shrimp/prawn | No | No | No | |
| Squid | No | No | No | |
| Yams | No | No | No | |
| Misc. additional allergens and other substances of potential interest | Part of recipe | Used on shared line | As raw material in factory | Comments |
| Added antioxidants | No | No | No | Natural presence of antioxidants, none added |
| Added colors (natural or artificial, incl. AZO colors) | No | No | No | |
| Added flavors (natural or artificial) | No | Yes | Yes | Vanillin: Possible traces due to cross contamination |
| Added preservatives (incl. BHA/BHT) | No | No | No | |
| Added sweeteners (natural or artificial) | No | No | No | |
| Added sugars | No | No | No | Natural presence, none added |
| Added vitamins | No | No | No | Natural presence, none added |
| Animal products (other) | No | No | No | |
| Bee pollen, propolis or royal jelly | No | No | No | |
| Benzoic acid and parabens (E210 – E219) | No | No | No | Approximately 8ppm benzoic acid present by nature, none added |
| Cottonseed flour | No | No | No | |
| Latex | No | No | No | |

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Allergens and sensitizers information

| | | | | |
|--------------------------------------|----|-----|-----|--|
| Mango | No | No | No | |
| Phenylalanine | No | No | No | Natural presence in the cocoa protein, none added |
| Rice | No | No | No | |
| Seeds and products thereof | No | Yes | Yes | Sunflower seeds: Possible traces due to cross contamination with sunflower lecithin ($\leq 1.5\text{ppm}$) |
| 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 | |
| Tomato | No | No | No | |
| Umbelliferae | No | No | No | |
| Vegetable extracts | No | No | No | |
| Vegetable protein (incl. hydrolyzed) | No | No | No | Cocoa contains protein by nature, none added |
| Yeast (added) | 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)

³ Japan: Food Labelling Standards (Cabinet Office Order No. 10 of 2019)