

Certificate of Analysis

Product : **Coconut MCT C8 Oil ORGANIC**
SKAL 017077 / NL-BIO-01

Date : 15-3-2023

Product code : 0798
Batch No. : **17057**
Species : Cocos nucifera
Manufacturing date : 04-2022
Best use before : 07-2024*

Description: Fatty oil obtained from the dried, solid part of the endosperm of Cocos nucifera L., the Organic Coconut MCT C8 Oil is produced to EU Organic standards and processes including fractional distillation without the use of chemicals. This oil is produced from organically grown coconuts.

Analytical results:

| Parameter: | unit: | min: | max: | Results: |
|--|-----------|-------------|-------|-------------|
| C8:0 Caprylic | A% | 95.0 | | 99.3 |
| Acid value | mg KOH/g | | 1.0 | 0.13 |
| Peroxide value | meq/KG | | 3.0 | 0.11* |
| Anisidine value ² | | | 15.0 | <0.5 |
| Totox value | | | 25.0 | <0.72 |
| Moisture | % | | 0.1 | <0.01 |
| Saponification value ² | mg KOH/g | 345.0 | 370.0 | 350.0 |
| Unsaponifiable matter ² | % | | 1.0 | 0.03 |
| Refractive index at 20°C ² | | 1.430 | 1.462 | 1.450 |
| Specific gravity 20 / 20°C ² | g/ml | 0.930 | 0.960 | 0.945 |
| Hydroxyl value | mg KOH/g | | 10.0 | 3.0 |
| Lead ¹ | mg/kg | | 0.1 | <0.05 |
| Cadmium ¹ | mg/kg | | 0.05 | <0.02 |
| Mercury ¹ | mg/kg | | 0.05 | <0.005 |
| Arsenic ¹ | mg/kg | | 0.1 | <0.1 |
| Benzo (a) Pyrene ¹ | µg/kg | | 2.0 | <0.1 |
| Sum of B(a)P, B(a)A, B(b)F, chrysene ¹ | µg/kg | | 10.0 | <1.0 |
| Sum of dioxins and furans (WHO-PCDD/F-TEQ/g) ¹ | pg/g | | 0.75 | <0.173 |
| Sum of dioxins, furans, dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ/g) ¹ | pg/g | | 1.25 | <0.276 |
| PCB's (Sum 28, 52, 101, 138, 153, 180) (Total 6 DIN-PCB) ¹ | ng/g | | 40.0 | <1.0 |
| Salmonella ¹ | cfu/25g | | ND | ND |
| Yeast & moulds ¹ | cfu/ml | | 100 | <1 |
| Total viable count (TVC) ¹ | cfu/g | | 1000 | 10 |
| E. Coli ¹ | cfu/ml | | ND | ND |
| Staphylococcus Aureus ¹ | cfu/ml | | ND | ND |

Pesticide residues in accordance with European Food Law¹

¹ These parameters are tested annually on a random batch

² These parameters are tested 3 times a year on a random batch

* Based on recent test results we are able to extend the shelf life of this batch

Best use date, storage and packaging:

The oil has a best use date of 24 months in the original packing. If packed in fluorinated HDPE drums best use within 12 months from packing date. Store in a cool and dry place, avoid light and heat. The oil is packed under nitrogen, once opened use content quickly. When taking material fill the drum again with nitrogen and close the drum airtight to avoid oxidation.

Date 09.06.2022
Customer no. 100583

REPORT

Order 657442 Coconut Oil MCT C8 - Batch: 17057
Sample no. 592283
Sample acceptance 03.06.2022
Date of sampling 02.06.2022
Customer sample description Coconut Oil MCT C8 - Batch: 17057
Packaging Plastic bottle

Unit Result in OM Method

Fatty acid composition

| | | | | |
|---------------------------------------|---|------|--|---|
| Butyric acid C4:0 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Caproic acid C6:0 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Caprylic acid C8:0 | % | 99,3 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Nonanoic acid C9:0 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Capric acid C10:0 | % | 0,6 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Decenoic acid C10:1 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Undecanoic acid (C11:0) | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Lauric acid C12:0 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Dodecenoic acid C12:1 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| C13 branched | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Tridecanoic acid C13:0 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Tridecenoic acid C13:1 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| C14 branched | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Myristic acid C 14:0 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Myristoleic acid C14:1 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| C15 branched | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Pentadecanoic acid C15:0 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Pentadecenoid acid C15:1 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| C16 branched | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Palmitic acid C16:0 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Palmitoleic acid C16:1 | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Hexadecadienoic acid C16:2 (omega 4) | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Hexadecatrienoic acid C16:3 (omega 3) | % | <0,1 | | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |

The in house activities reported in this document are accredited according to EN ISO/IEC 17025:2017. Only not accredited and/or outsourced activities are identified by the symbol " *) " .

Date 09.06.2022

Customer no. 100583

REPORT

Order

657442 Coconut Oil MCT C8 - Batch: 17057

Sample no.

592283

| | Unit | Result in OM | Method |
|--|------|--------------|---|
| Hexadecatetraenoic acid C16:4 (omega 3) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| C17 branched | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Margaric acid C17:0 | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Heptadecenoic acid C17:1 | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| C18 branched | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Stearic acid C18:0 | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Oleic acid (octadecenoic acid), C18:1 (omega 9) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Ricinoleic acid C18:1 | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| trans-oleic acid (trans-octadecenoic acid), C18:1t | %) | <0,01 | in accordance with ISO 15304:2002 |
| Conjugated linoleic acid (CLA), C18:2 | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Linoleic acid (octadecadienoic acid) C18:2 (omega 6) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Linoleic acid C18:2 (5,9) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Linoleic acid C18:2 (9,12) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| trans-Linoleic acid (trans-octadecadienoic acid), C18:2t | %) | <0,01 | in accordance with ISO 15304:2002 |
| alpha-Eleostearic acid C18:3 (9Z,11E,13E) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| alpha-linolenic acid (Octadecatrienoic) C18:3 (omega 3) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| beta-eleostearic acid C18:3 (9E,11E,13E) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| gamma-linolenic acid (Octadecatrienoic) C18:3 (omega 6) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Octadecatrienoic acid C18:3 (5,9,12) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Octadecatrienoic acid C18:3 (9,12,15) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| trans-linolenic acid (octadecatrienoic acid) C18:3t | %) | <0,01 | in accordance with ISO 15304:2002 |
| Stearidonic acid (octadecatetraenoic acid) C18:4 (omega 3) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Nonadecanoic acid C19:0 | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Arachidic acid C20:0 | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Gadoleic acid C20:1 (omega 9) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Eicosadienoic C20:2 (omega 6) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Eicosatrienic acid C20:3 (omega 3) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Eicosatrienoic C20:3 (omega 6) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Arachidonic acid (eicosatetraenoic acid) C20:4 (omega 6) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Eicosatetraenoic acid C20:4 (omega 3) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Eicosapentaenoic acid (EPA), C20:5 (omega 3) | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Heneicosanoic acid C21:0 | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Behenic acid C22:0 | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |

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Date 09.06.2022
Customer no. 100583

REPORT

Order **657442 Coconut Oil MCT C8 - Batch: 17057**
Sample no. **592283**

| | Unit | Result in OM | Method |
|---|------|---------------------|---|
| <i>Erucic acid C22:1 (omega 9)</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| <i>Docosadienoic acid C22:2 (omega 6)</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| <i>Docosatrienoic acid C22:3 (omega 3)</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| <i>Docosatetraenoic acid C22:4 (omega 6)</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| <i>Docosapentaenoic acid C22:5 (omega 3)</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| <i>Docosapentaenoic acid C22:5 (omega 6)</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| <i>Docosahexaenoic acid C22:6 (omega 3)</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| <i>Tricosanoic acid C23:0</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| <i>Lignoceric acid C24:0</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| <i>Nervonic acid (tetracosenoic acid) C24:1 (omega 9)</i> | % | <0,1 | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Total monounsaturated fatty acids | % | <0,1 ^{x)} | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Total Omega 3 fatty acids | % | <0,1 ^{x)} | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Total Omega 6 fatty acids | % | <0,1 ^{x)} | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Total Omega 9 fatty acids | % | <0,1 ^{x)} | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Total polyunsaturated fatty acids | % | <0,1 ^{x)} | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Total polyunsaturated (>4) fatty acids | % | <0,1 ^{x)} | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Total saturated fatty acids | % | 99,9 ^{x)} | MP-02203-NL ISO 12966-2:2017/12966-4:2015 |
| Total trans fatty acids ^{y)} | % | <0,10 ^{x)} | in accordance with ISO 15304:2002 |

x) Single values below the quantification limit or the detection limit were not taken into account.

Explanation: The symbol "<" or n.d. in the result column means, the substance concerned is not quantifiable at the limit of quantification shown opposite.

Parameter-specific analytical measurement uncertainties and information regarding the method of calculation will be provided upon request if the reported results are above the parameter-specific limit of quantification.

The list of conformity accredited activities L234 (MF-04048-EN) is available on our website www.drverwey.nl

Start of testing: 03.06.2022

End of testing: 09.06.2022

The results are related only to the samples tested. In cases where the laboratory has not been responsible for sampling, the reported results apply to the samples as received. Duplication of this document or of parts of it requires the authorization from laboratory.

