

### Product Technical Dossier

Product	CLA powder Low Odour - (Chinese Origin)
CCL Product Code	P10615

#### Specification Details

	Specification
Identification (GC)	Positive
Assay (M/DYN)	Conjugated Linoleic Acid as TG: 540-620mg/g
Anisidine Value	Max 10
Peroxide Value	Max 10 meq/kg
Appearance	Free-Flowing Powder
Colour	White to Off-White
Aroma	Characteristic
Flavour	Characteristic
Sieve Analysis % passed	Min 95% Pass 40 Mesh
Loss on Drying	Max 4%
Ash	Max 4%
Bulk Density	0.35 - 0.60 g/ml
pH	6.8-7.8
Viscosity (M/DYN)	Max 50cps

#### Microbiological Limits

Total Viable Count	Max 3,000cfu/g
Yeasts & Moulds	Max 300cfu/g
E. Coli	Negative/g
Salmonella	Negative/25g
Staphylococcus aureus	Negative/g

#### Heavy Metal Limits

Lead (Pb)	Max 3ppm
Cadmium (Cd)	Max 1ppm
Mercury (Hg)	Max 0.1ppm
Arsenic (As)	Max 1ppm

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## Additional Technical Information

Raw Material Full Botanical / Chemical Name	CLA (Conjugated Linoleic Acid) Powder Low Odour (Chinese Origin)
Part Used	Source of CLA: Safflower Seeds ( <i>Carthamus tinctorius</i> )
The material is Food Grade	Yes
Solvent used	None
Country of Origin	China
Country of Manufacture	China
Solubility in Alcohol	Not Soluble
Solubility in Water	Not Soluble
Average Molecular weight	280
Molecular Formula	C <sub>18</sub> H <sub>32</sub> O <sub>2</sub>
Shelf Life from Date of Manufacture	Min 1 Year
Suitable for Vegetarians?	Yes
Suitable for Vegans?	No
Storage Conditions	Store in a cool dry place, protected from light, heat and oxygen. The preferred temperature is below 30 °C.

## Composition Origin, Function and Percentages

Ingredients	Function	% composition	Source
Conjugated Linoleic Acid Triglycerides	principal component	≥ 70.0%	Safflower seed oil
Corn Syrup Solids	Small molecule filler	10.0~25.0%	Corn
Sodium Caseinate	Emulsification, embedding	2.0~8.0%	Cows milk
Silicon Dioxide	Antagonist	0.2~2.0%	Synthesis
Dipotassium Phosphate	Aqueous phase stabilizer	0.1~2.0%	Synthesis
Tocopherol and ascorbyl palmitate	Antioxidant	0.01~0.2%	Soy

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## Nutritional Data

Test	Value per 100g
Energy kJ / Kcal	3184 kJ/761 Kcal
Fat (g)	75.6
-Of which Saturates (g)	5.0
Carbohydrate (g)	12.6
-Of which Sugars (g)	4.0
Fibre (g)	0
Protein (g)	7.6
Salt (g)	0.5

Please note that surveillance testing may mean that not all the parameters stated on this specification are tested for every batch.

The allergen information is supplied by the manufacturer, we have not tested for each individual allergen to ensure they are not present. The information given is based on a documented risk assessment and is accurate to the best of our knowledge. If you intend to make a voluntary "free from" claim on your pack, additional testing may need to be carried out. For technical and labelling guidance, you should always speak to the competent authority for the market or member state in which the final products are placed.

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Allergens	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross-contamination? YES/NO or N/A
Peanuts and Peanut Derivatives (including possible cross contamination)	NO	NO	
Nut and Nut Derivatives <i>Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoensis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)</i>	NO	NO	
Sesame Seeds and Sesame Seed Derivatives	NO	NO	
Milk and Milk Derivatives (including lactose)	YES	YES	Sodium Caseinate (ingredient) is derived from cow's milk
Egg and Egg Derivatives	NO	NO	
Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten <i>(wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)</i>	NO	YES	Separate line
Soya and Soya Derivatives	NO	YES	Tocopherol from soy
Lupin and Lupin Derivatives	NO	NO	
Mustard and Mustard Derivatives	NO	NO	
Celery or Celery Derivatives (including Celeriac)	NO	NO	
Fish and Fish Derivatives	NO	YES	Separate line
Molluscs and their Derivatives	NO	NO	
Crustaceans and their Derivatives	NO	NO	
Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	NO	NO	

Note: D-Alpha Tocopherol does not require labelling as "Product of Soya" or indeed if it is made from oil, fully refined oils are exempt from labelling.

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Additives / Contaminants / Dietary Requirements / Intolerances	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross-contamination? YES/NO or N/A
Additives / E Numbers	YES	YES	See Composition
Antioxidants	YES	YES	See Composition
Ethylene Oxide	NO	NO	N/A
Gelatine	NO	NO	N/A
Flavourings (Artificial / Nature Identical / Natural / Smoked)	NO	NO	N/A
Maize / Corn and any Derivatives	YES	YES	Source of glucose
Legumes / Pulses	NO	NO	N/A
Rice and Rice Derivatives	NO	NO	N/A
Added Salt	NO	NO	N/A
Added Sugar / artificial or natural sweeteners	YES	YES	See Composition
Aspartame	NO	NO	N/A
BHA / BHT (E320 / E321)	NO	NO	N/A
Caffeine	NO	NO	N/A
Colours (Artificial / Nature Identical / Natural / Smoked)	NO	NO	N/A
Dextrose	NO	NO	N/A
other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	YES	YES	Safflower seed oil
Kiwi fruit	NO	NO	N/A
Polyols (sugar alcohols)	NO	NO	N/A
grape fruit	NO	NO	N/A
Sorbic Acid (E200, E203)	NO	NO	N/A
Any other Preservatives	NO	NO	N/A
Ethanol	NO	NO	N/A
Honey	NO	NO	N/A
Lactose	YES	YES	Sodium Caseinate
Yeast and Yeast Derivatives	NO	NO	N/A
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	YES	YES	Sodium Caseinate (ingredient) is derived from cow's milk
Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	YES	YES	Sodium Caseinate (ingredient) is derived from cow's milk



## Statements

<b>Confirmation of BSE / TSE Status</b> This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.	Yes
This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.	Yes
<b>Confirmation of GM Status</b> This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations.	Yes
<b>Confirmation of Non-Irradiation Status</b> This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives.	Yes
<b>Confirmation of Nandrolone Status</b> This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.	Yes
<b>Confirmation of IOC Product Status</b> This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee) and or WADA.	Yes
<b>Confirmation of Animal Testing Status</b> This is to certify that all the products sold by Cambridge Commodities have not been tested on animals in any part of its manufacture in accordance with current regulations.	Yes
<b>Confirmation of Pesticides Status</b> This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.	Yes
<b>Confirmation of Nanoparticles Status</b> This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles. Commission Recommendation, defines as follows: "Nanomaterial" means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm".	Yes
<b>Packaging Status</b> We hereby certify that the packaging used in the above-mentioned material conforms to EU regulations and subsequent amendments on food grade packaging	Yes
<b>Confirmation of PAH status</b> This is to certify that the above-mentioned product complies with the max PAH limits set by the EU regulations	Yes

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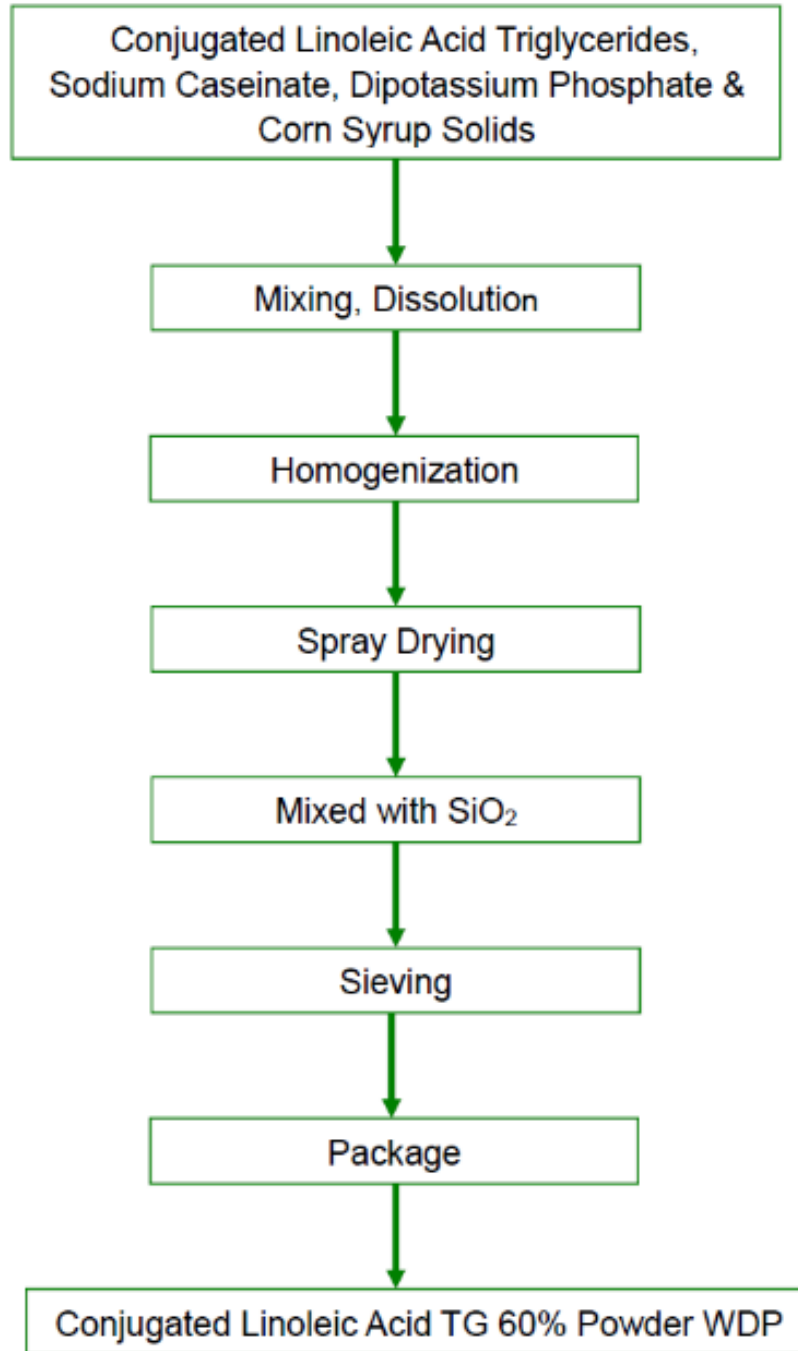
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Product Flow Chart



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## Material Safety Data Sheet

To download this product's material safety data sheet, please click [here](#) and search for the Cambridge Commodities product code. If there is no MSDS available, please follow the on-screen instructions to request one.



The Information provided in this document is subject to change and the batch specific certificate of analysis should always be referenced.

To be used as per local legislation.

## Change History

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	Added additional technical information, updated the composition and flow chart.  The units of the assay and the additives table were also updated.	Yes
3	Updated Additive tables to show fish and cereals are handled on site but on separate lines Added the fact that Lactose is present from sodium caseinate and seed derivative is used as starting material Changed the unit for viscosity	YES

## Document Approval

Originator	Approver
 Alan Feetham QC Technician <small>22/02/2023 14:29</small>	 C White Senior Quality Specialist <small>22/02/2023 14:33</small>

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