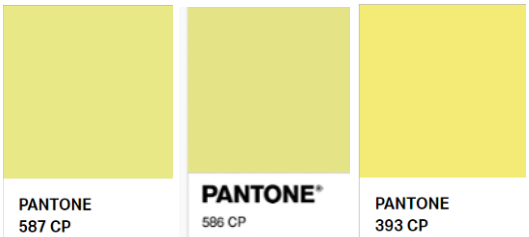
Technical Specification Data Sheet

Product Name:	**Lemon Grass Milled (Frozen)**	Size	Weight
Taxonomic Name:	*Cymbopogon citratus*	1-2mm	10kg
Country of Origin:	Thailand		

Product Description:
An IQF preparation of cut LEMON GRASS with all of the organoleptic attributes associated with fresh cut LEMON GRASS. Free from off odours and flavours. Packed to minimum weight.
Declaration: Lemon Grass 100%.

Organoleptic:

Specification	Details
Appearance	Free from foreign matter. - Particle size 1-2 mm. Product may look block frozen but should break up easy with minimum force. There may be some visual clumps and free flow - Light green, creamy light beige, yellow, creamy brown, light brown green - Green colour ≤ 5 % - Colour variation ≤ 5 % but may vary dependant on particle size. - Pantone: 587CP, 586CP, 393CP 
Taste	Typical lemon grass taste moderate, natural. No off taste.
Odour And Texture	Typical lemon grass odour. No off odours. Sliced firm stem only, there should be no sliced leaf used for the milled product.

Size	1-2 mm ± 1mm
Oversize/ Undersize	10% allowance ± 1mm
EVM	Less than 1 % There should be no root base at all, the root cap should be completely removed.

Conformance:
Product is milled into 1-2mm. Product should be fresh with minimal discolouration before processing. Product must be free of fungal infections, botrytis, EVM and all foreign bodies. Contamination of any kind will NOT be acceptable; this includes – chemicals, metal, insects, insect parts, grit, soil or stones.

Preparation:
Product is to be suitably decontaminated by washing, blanching, chilled, and frozen, by the supplier, milled to 1-2mm and to be packed in clean sound food grade packaging. The product must pass metal detection tests.
Frucom will require details of the process HACCP including metal detection sensitivities prior to commencing supply.

The product is to be processed in accordance with UK / EU legislation.

Storage & Shelf life:
Store at –18°C. or below, ideal storage should be at –20°C. Avoid storage with strongly flavoured materials, or with materials that absorb flavours readily. Shelf Life at these temperatures is 24 months. Minimum 6 months on delivery. Once opened, the remaining material should be returned to cold storage of –18°C (or below) as soon as possible in order to retain product quality.

Packaging:
Inner:
Blue tint food grade bag, sealed or folded (depends on customer requirement)
Outer:
White food grade box, printed with supplier information. Self-adhesive blue tape closure.

Product Coding & Labelling:
The product is coded in the following format:

product name
net weight
best before date
storage t° -18°C
batch code (lotnr.)
Produced in Thailand

All food contact packaging is to conform to the current UK / EU legislation. - **product in damaged packaging will be rejected.**
The packaging is not to have been previously used for transportation or storage of any other material.

Microbiological Standards

Parameter	Target	Unacceptable
Coliforms (cfu/g)	$<10^3$	$\geq 10^3$
TVC (cfu/g)	$<10^6$	$\geq 10^6$
E. coli (cfu/g	<10	≥10
Yeasts (cfu/g)	$<10^3$	$\geq 3x10^3$
Moulds (cfu/g)	$<10^3$	$\geq 3x10^3$
Salmonella spp.	Absent in 25g	Present in 25g
Listeria monocytogenes	Absent in 25g	Present in 25g

Dietary Information

	per/100g
Energy (kJ)	414
Energy (kcal)	99
Protein	1.8g
Carbohydrates	25.3g
of which Sugars	No data
Starch	No data
Fat	0.5g
Sodium	6.0mg

Information from USDA

Free From

	Free From:		**Free From:**
Meat/Meat derivatives	**Yes**	HVP/TVP	**Yes**
Fish/Fish derivatives	**Yes**	Monosodium glutamate	**Yes**
Milk/Dairy products	**Yes**	Added sugars	**Yes**
Crustaceans	**Yes**	Celery	**Yes**
Mustard	**Yes**	Sulphur dioxide	**Yes**
Lactose	**Yes**	Added salt	**Yes**
Soya	**Yes**	Artificial sweeteners	**Yes**
Soya derivatives	**Yes**	Starch/modified starch	**Yes**
Maize	**Yes**	Cold Pressed oils	**Yes**
Maize derivatives	**Yes**	Nuts	**Yes**
Wheat	**Yes**	Nut oils/derivatives	**Yes**
Wheat derivatives	**Yes**	Sesame seeds	**Yes**
Rye	**Yes**	Sesame seed oils/ derivatives	**Yes**
Rye derivatives	**Yes**	Seeds	**Yes**
Gluten	**Yes**	GM materials	**Yes**
Oats/oat derivatives	**Yes**	Egg/egg derivatives	**Yes**
Barley derivatives	**Yes**	Colours (natural)	**Yes**
Malt/malt products	**Yes**	Colours (artificial)	**Yes**
Preservatives	**Yes**	Flavours (any)	**Yes**
BHA/BHT	**Yes**	IRRADIATION	**Yes**
Malt/malt products	Yes	Colours (artificial)	Yes
Preservatives	Yes	Flavours (any)	Yes
BHA/BHT	Yes	IRRADIATION	Yes

Suitable For

Coeliacs	Yes	Kosher	Yes – Not Certified
Lactose intolerant	Yes	Halal	Yes – Not Certified
Vegetarian (Ovo-Lacto)	Yes	Vegan	Yes

Frucom Limited Genetically Modified Foods Policy

Frucom Limited does not process any raw materials that have been genetically modified. The company does not take part in trials of modified plant matter and aims not to manufacture mixed products where ingredients or components have been produced by means of genetic modification.
In this instance genetic modification covers not only plant matter that has been significantly altered by genetic manipulation to give a product different from the naturally occurring material, but also finished produce that has been manipulated and in the course of its manufacture no longer contains genetically modified material. Materials that have been produced from genetically modified micro-organisms or plants which may or may not contain genetically modified materials will not be handled by Frucom Limited

The company position regarding the genetic modification of foods will remain as stated. Until such time that sufficient scientific evidence exists to demonstrate the absolute safety of all genetic modification, or until such a point where our customers are willing to accept genetically modified produce on the basis of safety as stated above.

Frucom Limited Nut Handling Policy

Frucom Limited does not handle nuts, nut by-products or nut derivatives. This includes no nut products in the canteen vending machine.

As a consequence of not processing nut products the company does not have an internal nut segregation policy of production lines, equipment, or personnel.

Suppliers are audited by means of a self-assessment questionnaire, the response to which will demand either no, limited, or further investigation.

Suppliers to Frucom Limited which handle nut or nut products will be audited, to assure us and our customers that there is no possibility for the contamination of produce with nut or nut derivatives.

The following list outlines those species covered by this policy:

Almonds	Acorns	Almondettes (Buchanania seeds)	Betel nuts
Brazil nuts	Bread nut/Bread fruit	Beech nut	Butter nut
Cashew nuts	Chestnut	Cob nut	Chinquapins
Chilean wild nuts	Cola nuts	(Bushy chestnut)	Filberts
Ground nuts/Peanuts	Ginko nuts	Heart nuts	Hazel nut
Hickory nut	Jojoba nut	Jack nut	Lichi nut
Monkey nut	Macadamia	Oyster nut	Pecan nut
Pili nut	Paradise nut	Pine nut	Pistachio
Quadong nut	Shea nut	Squari nut	Sesame seeds
Tallow nut	Tropical almond	Tahiti chestnut	Tiger nut
Walnut			

The above list may alter as other nuts are found to be allergenic and further legislation occurs. Where there is any doubt from the supplier as to whether their produce contains any of the above listed produce, it shall be considered that such nuts are present and that they may present a risk to the final consumer.

Product Quality Parameter

These are fresh products and, therefore, by their very nature may vary as a result of seasonal influences, such as the time of harvest, the prevailing and historic weather conditions. However, such factors have no reflection on the overall performance of the product. Crops may be treated with pesticides to control insects, and other materials to control yeasts and moulds, with the aim of achieving their total absence from the finished product. All raw materials are tested on an annual basis to ensure that chemical residues do not exceed current legislative MRL guidelines. We ensure that MRL's are not exceeded by only applying chemical treatments on an absolute necessity basis, and always observe legal and manufacturer's instructions in full.

The products supplied by Frucom Limited shall conform to all current EC/UK legislation.

All product is metal detected in accordance with the standards in our HACCP plan. Ref HLL

All details of this specification will remain confidential to Frucom Limited. No other party is empowered to disclose any details to a third party. Any changes to the product will be made with prior notification to the customer as appropriate.

Signed *K. Wanis*
On behalf of Frucom Ltd.

Position: Technical Manager
Date: 04/07/2023

Signed ……
On Behalf of Supplier

Position: ……
Date…….

Amendment Information

Date Of Amendment	Reason For Amendment	Previous Issue Date
17/08/2022	Updated Nutritional Data and Free From	20/07/2021
04/07/2023	Updated Micro Standards, so consistent for all lemon grass specs from Thailand	17/08/2022