

# Di-NAX - Natural antioxidant concentrate

June 2025

**KONS@NET™**  
*You deserve the best*

*In collaboration with*



**omnicane**

*Integrating Energies*



Agro-Industry



Bioethanol



Energy



Logistics



Property  
& Leisure



Retail &  
Brands







# KONSONET in brief



10 years in activity in Lithuania



KAUNAS CHAMBER  
OF COMMERCE,  
INDUSTRY AND CRAFTS

Member of Kaunas Chamber of Commerce, Industry and Crafts



Representative of Mauritius Sugar in Baltic States



Brand owner of Dodo Sugar

Largest range of unrefined cane sugar from Mauritius in Baltic States



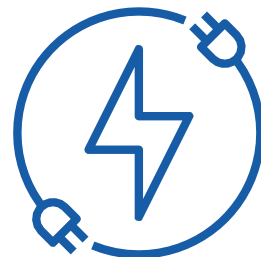
Trading of cocoa products, oats and Lecithin products



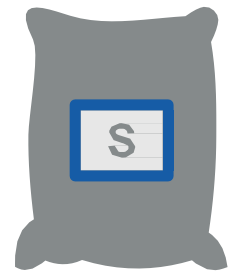
# Omnicanne at a glance



7.6 Billion Turnover (Rs)



770 GWh Electricity  
exported to national grid



200,000 Tonnes  
Refined Sugar production



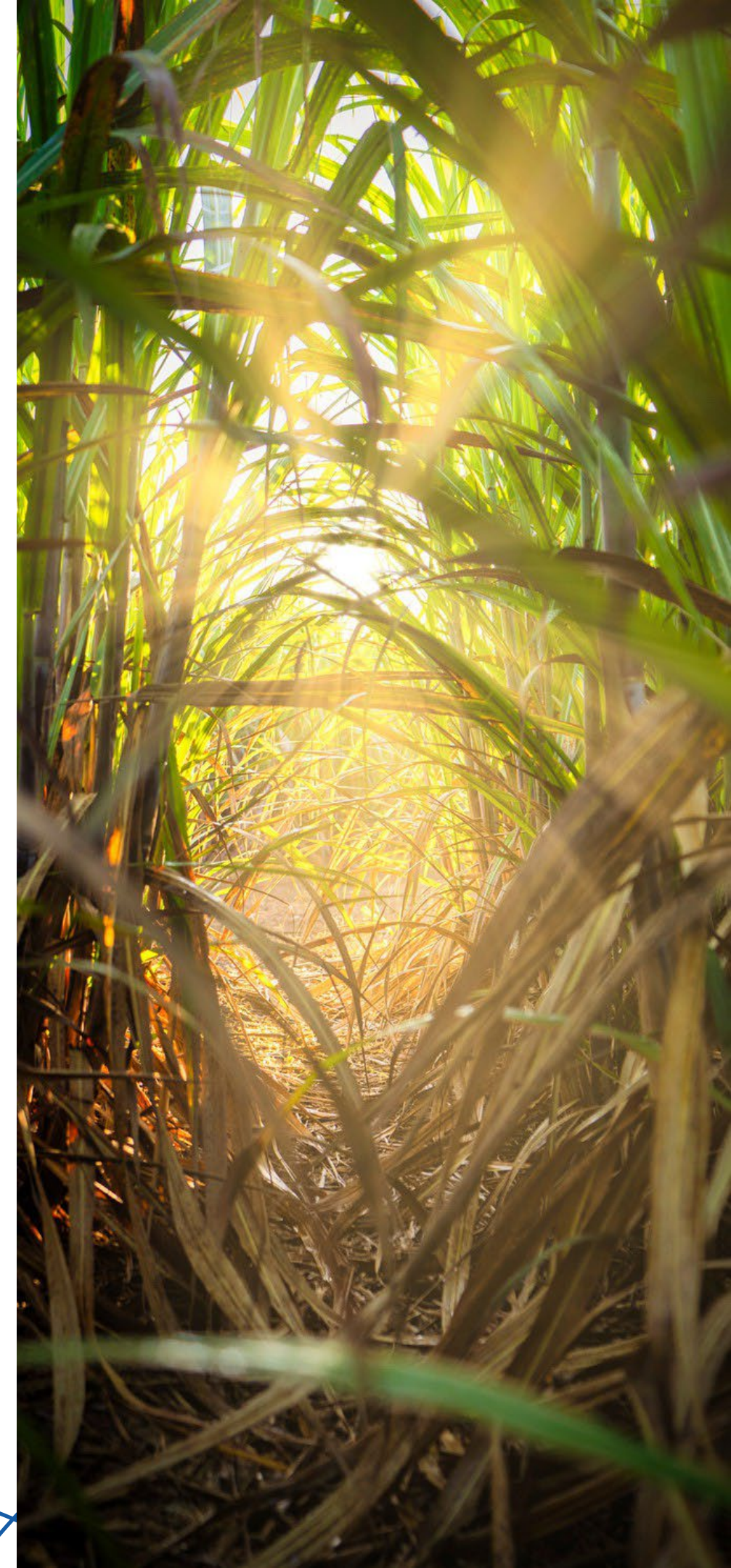
32.5 GWh Electricity  
exported to Rwanda grid



13 millions litres  
Bioethanol production

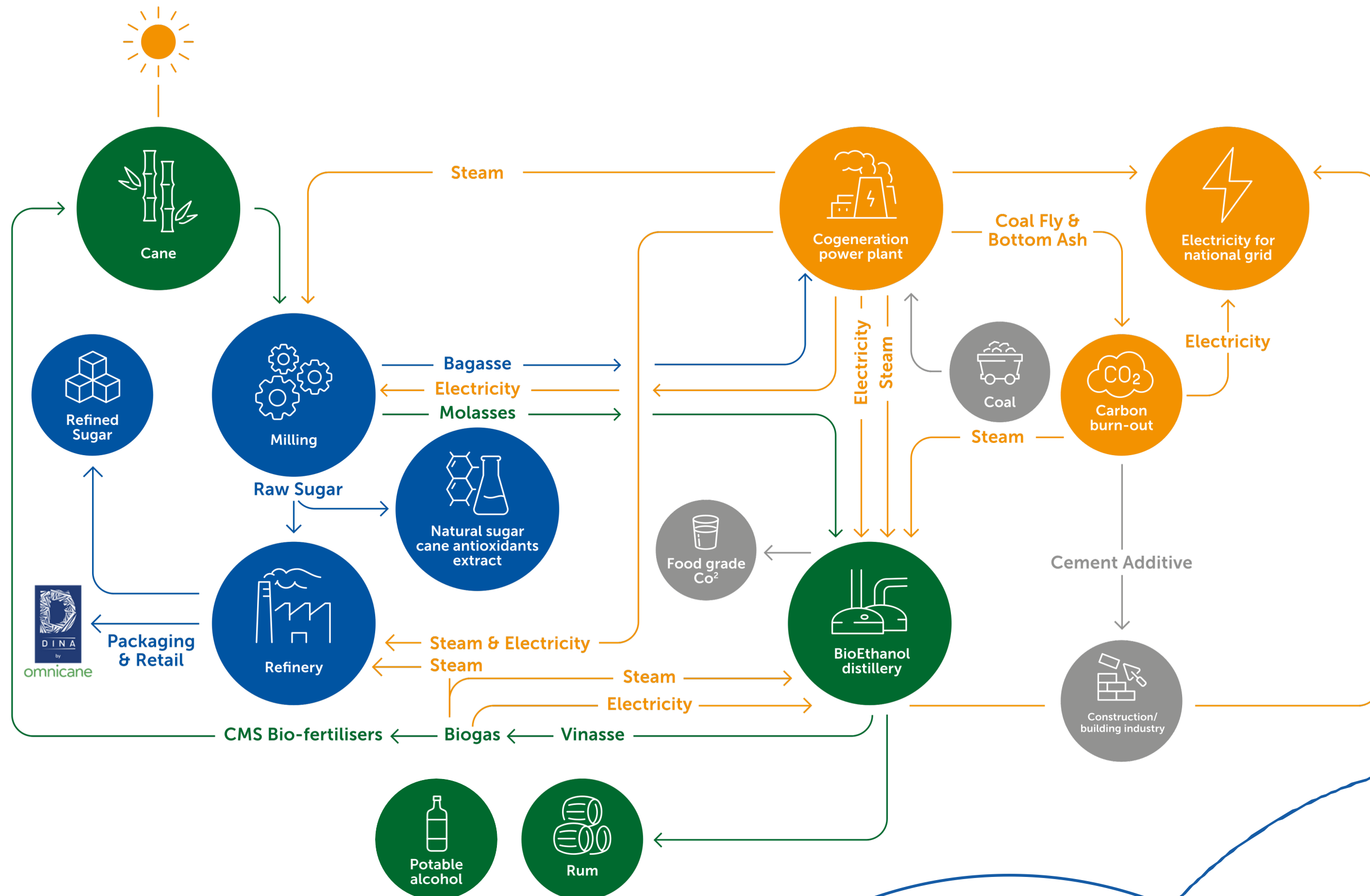


1,240 Employees





# Omnicanne Circular Economy





# Our certifications





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# Di-NAX

Natural Antioxidant Concentrate



# Di-NAX Plant

A ground-breaking sophisticated process



The Plant's commissioning in October 2023.  
Operate during sugarcane harvest season July  
to December.



Ensuring global quality standard : **BRCGS**  
certified in Nov 2024





# Di-NAX

## Natural Antioxidant Concentrate

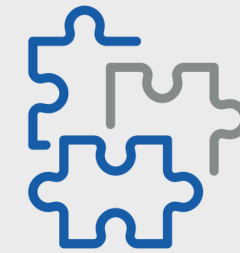
Omnicanne has invested  
in a ground-breaking process.



A health  
innovation



Strengthen  
Omnicanne's circular  
economy



A value-added  
product with  
multiple avenues

The Saccharum Officinarum plant is historically  
known to possess health related attributes .



# Di-NAX

## Natural Antioxidant Concentrate

Di-NAX is a concentrate derived from Sugarcane syrup and contains beneficial health plant molecules known as polyphenols with high antioxidant power.



### Characterised polyphenols present (In-Vitro studies)

Tannins  
Free phenolic acids  
(8 Molecules)  
Free Flavanols and  
proanthocyanins  
(5 molecules)



### Potential beneficial health attributes of Di-NAX

Antioxidant  
Anti-inflammatory  
Anti-microbial  
Contributes to management of  
blood glucose levels  
Brain protection  
Skin (UV protection and Lightening)  
Skin (Hydration & Rejuvenation)

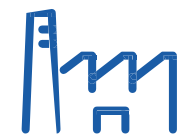


# PAOT-Liquid® technology

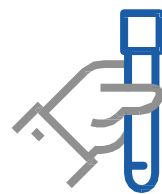
PAOT (Power Antioxidant Test) is a groundbreaking technology created by the European Institute of Antioxidants to assess total antioxidant power:



Quantifies the global antioxidant capacity of a sample.  
Provides insights into oxidative stress management.



Applicable in various industries: cosmetics, food, beverage, and healthcare.



Ensures product quality by evaluating antioxidant efficiency.



Supports R&D for creating antioxidant-rich formulations.





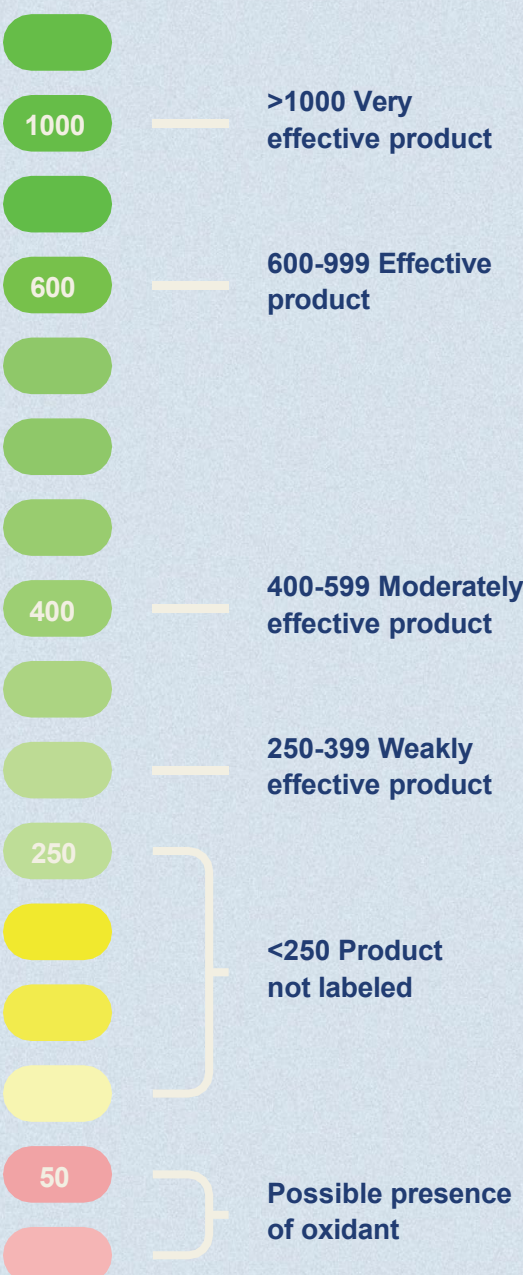
# Antioxidant Power Comparison



## Antioxidant activity comparison PAOT Score/g

24	Cranberry powder
51	Black chokeberry juice
66	Wildbillberry powder
67	Acai juice powder
150	Blueberry powder
388	100% Organic apple powder
744	Acerola juice powder
1378	Grape skin extract
2400	Di-NAX ✓
15675	Rosemary extract

## paot score scale® ingredients





# Di-NAX

## Potential applications



Nutraceuticals



Cosmetics



Food &  
Beverages



Animal Feed



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# Application

## Food & Beverages



## ANTIOXIDANT ACTIVITY COMPARISON TO “EVERYDAY LIFE” FOOD

1	Royal jelly organic 100%
2	Ginseng tonic
3	White wine
4	Lime juice
4	Ice tea
5	Orange, banana & strawberry
5	Energy 12 vitamins
8	Multivitamins juice - Orange, kiwi & apple
8	Raspberry beer
9	Fat burning tea
10	Vitamin C + Ginseng + Guarana
12	Diet cranberry drink (Vit C & Vit E)
12	Grape juice
15	Red berries juice
27	Red wine
64	100% pomegranate juice
75	1g Vitamin C salt
81	Dina Life Antioxidant sugar
356	Dina Life Low GI sugar

### paot score scale® FOOD PRODUCT



**>70** Very effective product    **55-69**  
 Effective product    **50-55** Moderate  
 effective product    **45-50** Weakly  
 effective product    **<45** Product not  
 labeled    Possible presence of oxidant

## Comparison to ‘everyday life’ food

### Current application in Food Industry





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# Application

## Cosmetics

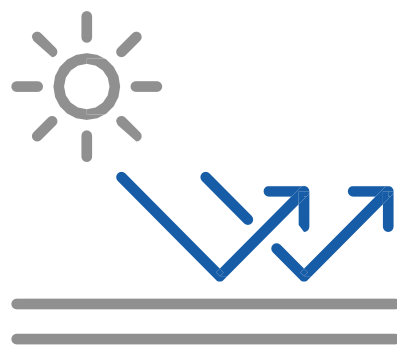


# Di-NAX: Sugarcane derived antioxidant concentrate



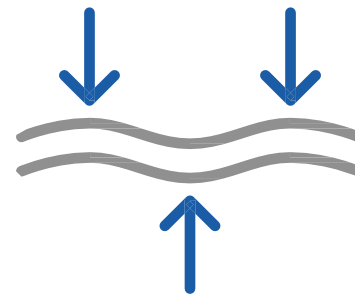
## Neutralises free radicals:

Reduces oxidative stress that accelerates skin aging

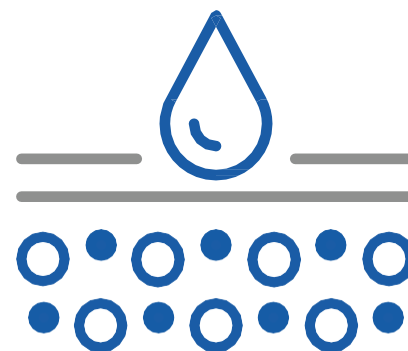


## Protects against UV damage:

Minimizes damage caused by exposure to ultraviolet rays.



**Stimulates collagen production:** Enhances skin firmness and elasticity.



**Anti-inflammatory effects:**  
Reduces redness and irritation for sensitive skin.

## Applications:

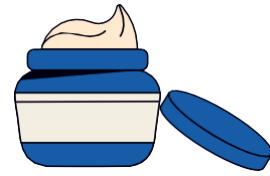
Anti-aging creams  
Hydrating serums  
Pollution protection formulations  
Skin brightening and repair products





# Di-NAX: Sugarcane derived antioxidant concentrate

Evaluation of a 1% Di-NAX-Enriched Facial Cream Over 8 Weeks in Adults Aged 40 to 60



## Tolerance

Tested under dermatological supervision  
Excellent skin tolerance - no adverse  
reactions observed



## Hydration & Comfort

Provides intense hydration (95%)  
Leaves skin soft and smooth (95%)  
Delivers a feeling of comfort after application (91%)



## Complexion & Radiance

Enhances skin radiance from 8 weeks (+11%)  
Boosts skin luminosity (+17%)  
Visibly evens out the complexion (+18%)



## Anti-Ageing

Improves skin firmness  
Increases skin elasticity  
Reduces the appearance of wrinkles and fine lines  
(68% satisfaction)



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# Application

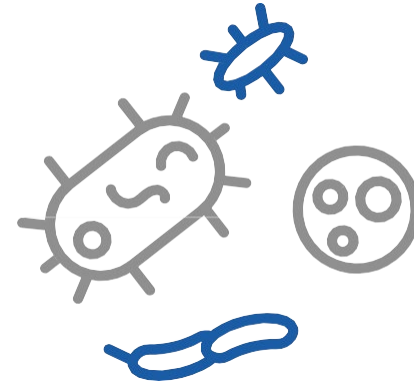
## Animal Feed



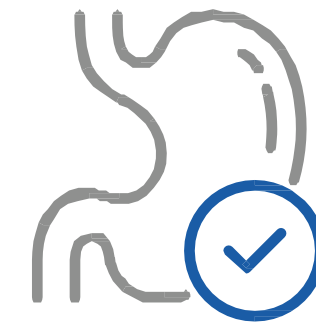
# Di-NAX: Sugarcane derived antioxidant concentrate



Antioxidant-rich composition **reduces** oxidative stress in animals.



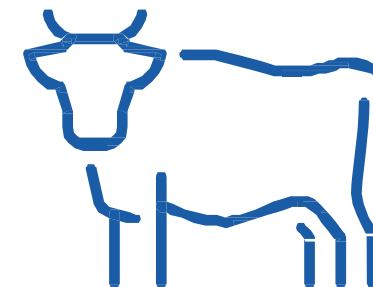
**Enhances** immune system response for better health and productivity.



**Promotes gut health** by reducing inflammation and supporting beneficial microbiota.



**Improves feed efficiency** and nutrient absorption.

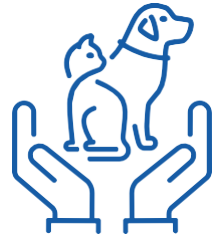


**Contributes to animal well-being** and growth performance



# Di-NAX: Sugarcane derived antioxidant concentrate

## Evaluation of Di-NAX Supplementation on Blood Biomarkers in Adult Beagles Over 28 Days



Clinically tested as a safe supplement: **no negative metabolic impact** (lipid biomarkers and glucose remained stable).



### Stronger systemic antioxidant capacity

- PAOT Score in blood increased significantly (+111%)
- Di-NAX confirmed **antioxidant-boosting effect** with improved oxidative markers
  - Oxidized Glutathione (−97%)
  - Vitamin E (+33%)
  - Selenium (+10%)
  - Zinc (+6%)
  - Coenzyme Q10 (+181%).



# Application Nutraceuticals



# Di-NAX: Sugarcane derived antioxidant concentrate

## Evaluation of Di-NAX Supplementation Over 28 Days on Blood Biomarkers in 20 Adults Aged 25–60



Clinically tested and proven safe, showing **no changes in key metabolic markers** (glucose, cholesterol, **HbA1c**) and no adverse effects.



**Significant boost in antioxidant capacity across all tested fluids (PAOT Levels)** – including urine, skin, plasma, red blood cells, and saliva



**Enhanced protection against oxidative stress**, shown by reduced levels of **isoprostanes** (–1.6%) and **lipid peroxides** (-18%).



**Improved natural cellular detox:** **Glutathione (GSH)** levels rose by 15.6%, and **Glutathione Peroxidase (GPx)** activity increased by an average of +1.2%



**Potential cardiovascular protection:** Significant reductions in oxidised **LDL** antibodies and lipid peroxides, indicating lower lipid oxidation risk.

### **HbA1c**

HbA1c is a blood test that shows your average blood sugar level.

### **Isoprostanes & lipid peroxides**

Isoprostanes and lipid peroxides are harmful substances formed when fats in the body are damaged by oxidation caused by oxidative stress. They indicate cell damage from harmful molecules

### **Glutathione (GSH)**

Glutathione (GSH) is a natural antioxidant your body produces to protect cells from damage.

### **Glutathione Peroxidase (GPx)**

Glutathione Peroxidase (GPx) is a helper in your body that protects your cells from harm. It works with glutathione to clean up harmful substances.

### **LDL (Low-Density Lipoprotein)**

LDL (Low-Density Lipoprotein), known as “bad cholesterol,” carries cholesterol from the liver to the body’s cells. Too much LDL can build up in blood vessel walls, raising the risk of heart disease and stroke.

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# Key Takeaways



# Di-NAX Benefits



Functional ingredient  
rich in antioxidant



Natural Source of  
Polyphenols and  
Carotenoids with health  
benefits



Shelf Life Extender



Improves cell protection  
against free radicals



Improves skin  
health



Suitable for people  
with specific diets



Low in Fats and Sugars  
Contains minerals,  
proteins, and fibers



Safe to consume and  
protects human  
intestinal cells

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Thank you



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# Annexes

# Technical Data Sheet

## Di-NAX Natural Antioxidant Extract



Ingredients	<i>Saccharum Officinarum</i> (sugarcane) extract
Suggested applications	Food, nutraceuticals and cosmetics

### Organoleptic Properties

Test	Specification
Appearance	Powder 100% < 500 µm
Solubility	Good solubility in water
Colour	Reddish brown to Dark brown

### Active Compounds

Total Polyphenols	Folin-Ciocalteu	Min 15%
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### Physical & Chemical Specifications

Criteria	MIN	MAX	Unit
Moisture		5	%
pH	5.5	8.5	

### Microbiological Specifications

Criteria	Target	Unit	Standard Method
Total Plate count	< 5000	CFU /10g	ICUMSA GS2/3-43

Yeast	< 500	CFU /10g	ICUMSA GS2/3-47
Moulds	< 500	CFU /10g	ICUMSA GS2/3-47
Coliforms	Absent	/10g	Compact Dry CF medium for the enumeration of coliforms. Method approved by the Association of Analytical Chemists (AOAC) International.  General Referee Reports. Journal of AOAC International 2006.Volume89(1): 304-318
Escherichia coli	Absent	/10g	Compact Dry EC medium for the enumeration of Escherichia coli. Method approved by the Association of Analytical Chemists (AOAC) International.  General Referee Reports. Journal of AOAC International 2006.Volume89(1): 304-318
Salmonella	Absent	/25g	Compendium of methods for the Microbiological examination of foods. 4th Edition 2001. Edited by FP Downes & K Ito. American Public Health Association. Modified to use ready-made compact Dry SL medium.

### Indicative Nutritional Data for 100g

Criteria	Value	Unit
Energy value	300	kcal
Total Carbohydrates	70	g
Sugars	28	g
Proteins	3	g
Dietarty fibers	6	g
Total Fat	0	g
Trans Fatty acids	0	g
Cholesterol	0	g
Potassium	413	mg



<b>Sodium</b>	326	mg
<b>Phosphorus</b>	32	mg
<b>Iron</b>	4	mg
<b>Magnesium</b>	2	mg
<b>Vit B2</b>	0.1	mg
<b>Manganese</b>	0.1	mg
<b>Zinc</b>	0.1	mg
<b>Calcium</b>	0.1	mg

### Packaging, Shelf-life & Storage

<b>Shelf-Life (from production date)</b>	36 months
<b>Packaging</b>	Anti-Skid Metallise Pack
<b>Net weight</b>	2kg
<b>Storage conditions</b>	Refrigerated <6°C

### Dietary Information

<b>Kosher</b>	Yes suitable
<b>Halal</b>	Yes suitable
<b>Ovo-lacto-vegetarians</b>	Yes suitable
<b>Vegans</b>	Yes suitable

### Food Safety and Legislation

<b>GMO</b>	This product is non GMO in accordance with Regulations (EC) No 1829/2003 and (EC) No 1830/2003 and their amendments.
<b>Allergens</b>	This product does not contain allergens in accordance with Regulations (EC) No 1169/2011 and its amendments.
<b>Ionization</b>	This product and its ingredients are not irradiated/ treated with ionising radiation in accordance with Directives 1999/2/EC and 1999/EC and their amendments
<b>Contaminants Maximum Level</b>	This product complies with Regulation (EC) No 1881/2006 and its amendments
<b>Pesticides Maximum Residues Levels</b>	This product complies with the European Pharmacopoeia
<b>Pharmacologically active substances residue limits</b>	Not applicable
<b>Safety</b>	This product meets the classification criteria as defined in article 31-3 of Regulation (EC) No 1907/2006 (REACH) and its amendments - Available material safety data sheet on professional request.
<b>Packaging</b>	The packaging in direct contact with the product complies with the provisions of Regulation (EC) No 1935/2004 and its amendments.
<b>Specific Legislation</b>	This product complies with Directive 2009/32/EC and its amendments regarding extraction solvents.
<b>Toxicological Information</b>	This product is not orally toxic, not toxic or irritate on contact to the skin, not carcinogenic, not mutagenic, not emit toxic gases, not toxic for environment.

**Manufactured by** Omnicane Milling Operations Limited - La Baraque, L'Escalier , Mauritius

**Dina by Omnicane**  
Omnicane International Trading  
Tel: +230 603 6500  
Fax: +230 636 0464

# Antioxidant PAOT Score Comparison

Product Name	Ingredient	Form	Active ingredient	Method	Polyphenol Results	PAOT
Rosemary extract	Rosemary leaf	Powder	1. Rosmarinic acid	1. Assay	1. ≥50%	15,675
Grape seed extract	Grape seed	Powder	1. Procyanidines	1. Assay	1. ≥95%	15,229
Pine bark extract	Pine bark	Powder	1. Procyanidines	1. Assay	1. ≥95%	6,122
Cranberry extract	Cranberry fruit	Powder	1. Procyanidines	1. Assay	1. ≥50%	3,193
Bilberry extract	Bilberry fruit	Powder	1. Anthocyanins	1. Assay	1. ≥25%	2,757
<b>Di-NAX</b>	<b>Sugarcane plant (<i>Saccharum Officinarum</i>)</b>	<b>powder</b>	<b>1.Polyphenols</b>	<b>1. Folin-Ciocalteu</b>	<b>1. ≥ 15%</b>	<b>2,400</b>
Pomgranate extract	Pomgranate skin	Powder	1. Polyphenols	1.UV method	1. 25%	1,790
Grape Skin extract	Grape peel	Powder	1. Procyanidines	1. Assay	1. ≥35%	1,378
Acerola Juice powder	Acerola juice concentrate + Maltodextrine	powder	1.Natural Vitamin C	1. HPLC	1. 17%	744
Apple extract powder	100 % apple extract	Powder	1. Total Polyphenols 2. Phloridzin	1. Expressed as catechin equivalent, UV method 280 nm 2. HPLC	1. >80% 2. >5%	388
Wild blueberry juice powder	Wild blueberry juice concentrate + Maltodextrin	powder	1. Polyphenols	1. Folin-Ciocalteu	1. ≥ 1%	150
Acai juice powder	Acai juice concentrate + Maltodextrin	Powder	1. Polyphenols	1. Expressed as catechin equivalent, UV method 280 nm	1. > 6%	67
Wild Bilberry Powder	Wild Bilberry + Maltodextrin	Powder	1. Polyphenols 2. Proanthocyanidins 3. Total anthocyanins	1.Expressed as catechin equivalent UV method 280nm 2.Adapted from European Pharmacopeia 3. Expressed as Cyanidin-3-glucoside equivalent, OD 510 nm	1. >2.5% 2. >1% 3. >0.5%	66
Black chokeberry juice powder	Black Chokeberry juice concentrate + Maltodextrin	Powder	1. Polyphenols 2. Total anthocyanins	1.Foline Ciocalteu as epicatechin equivalent 2.Spectrophotometry as Cyanidin-3-O-glucoside chloride quivalent	1. ≥2% 2. ≥0.2%	51
Cranberry juice powder	Cranberry juice Concentrate + Maltodextrin	Powder	1. Polyphenols 2. Proanthocyanidins 3. Total anthocyanins	1.Expressed as catechin equivalent UV method 280nm 2.Adapted from European Pharmacopeia 3. Expressed as Cyanidin-3-glucoside equivalent, OD 510 nm	1. >1.2% 2. >1% 3. >0.05%	24





# Certificate of labeling

PAOT LIQUID Technology™

*Invitro tested product*

Interconnecting Certified characteristics:

Certificate N°: **96024PLOMNIPOWANT04EU/FR**

- Source of antioxidants,
- Potentially, the ability to fight oxidative stress (to be clinically validated),
- Ability to protect the product from oxidation.

**OMNICANE LTD**

IEA certifies that the aforementioned **Di-NAX** product has been evaluated and found to comply with the specifications set out in the certification framework in accordance with the certification program in force at the date of issue of this certificate as defined by the PAOT label.

This certificate was presented by the governance committee of the PAOT label (Total antioxidant power) following the analysis report carried with PAOT Technologies™ by the European Institute of Antioxidants and for a period of one year.

Made in: NANCY

Chairman of the Committee

Date : June, 22, 2024

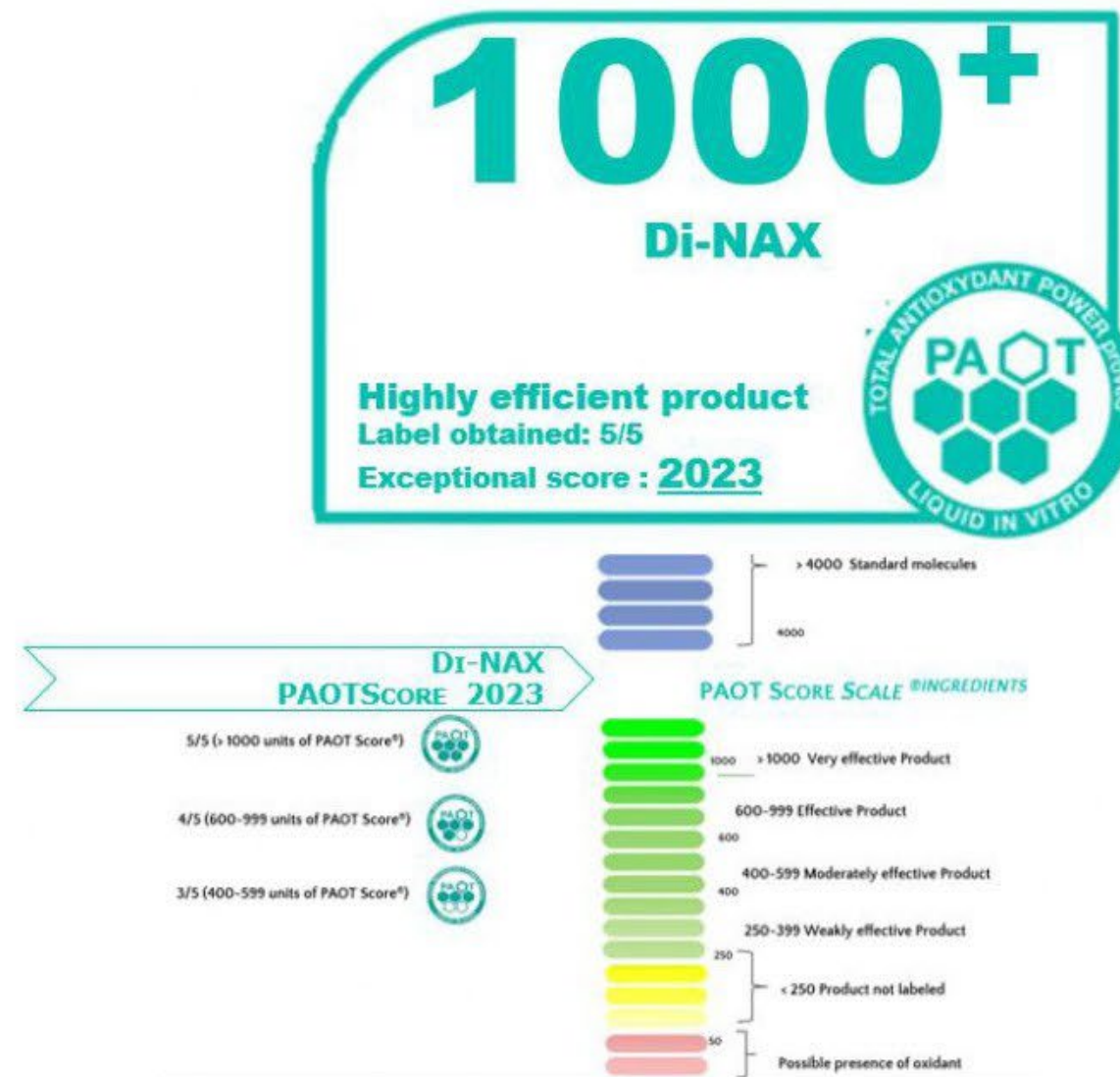
N° : **Di-NAX**



# PAOT TOTAL ANTIOXIDANT POWER (PAOTSCORE<sup>1</sup>)

**Antioxidants preserve health** by combating oxidative stress, the breeding ground of disease.

PAOTScore<sup>1</sup> labels attest to the consumer that the product analyzed contains enough active antioxidants to preserve the product from oxidation, and thus fight against oxidative stress (to be clinically validated).



<sup>1</sup> PAOT Score : [www.ie-antioxydants.com](http://www.ie-antioxydants.com) and [www.paotscan.io](http://www.paotscan.io)





# Certificate of labeling

PAOT LIQUID Technology™

*Invitro tested product*

Interconnecting Certified characteristics:

Certificate N°: **94024PLOMNISUGLGI04EU/FR**

- Source of antioxidants,
- Potentially, the ability to fight oxidative stress (to be clinically validated),
- Ability to protect the product from oxidation.

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**OMNICANE LTD**

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IEA certifies that the aforementioned **Dina Life Low GI sugar** product has been evaluated and found to comply with the specifications set out in the certification framework in accordance with the certification program in force at the date of issue of this certificate as defined by the PAOT label.

This certificate was presented by the governance committee of the PAOT label (Total antioxidant power) following the analysis report carried with PAOT Technologies™ by the European Institute of Antioxidants and for a period of one year.

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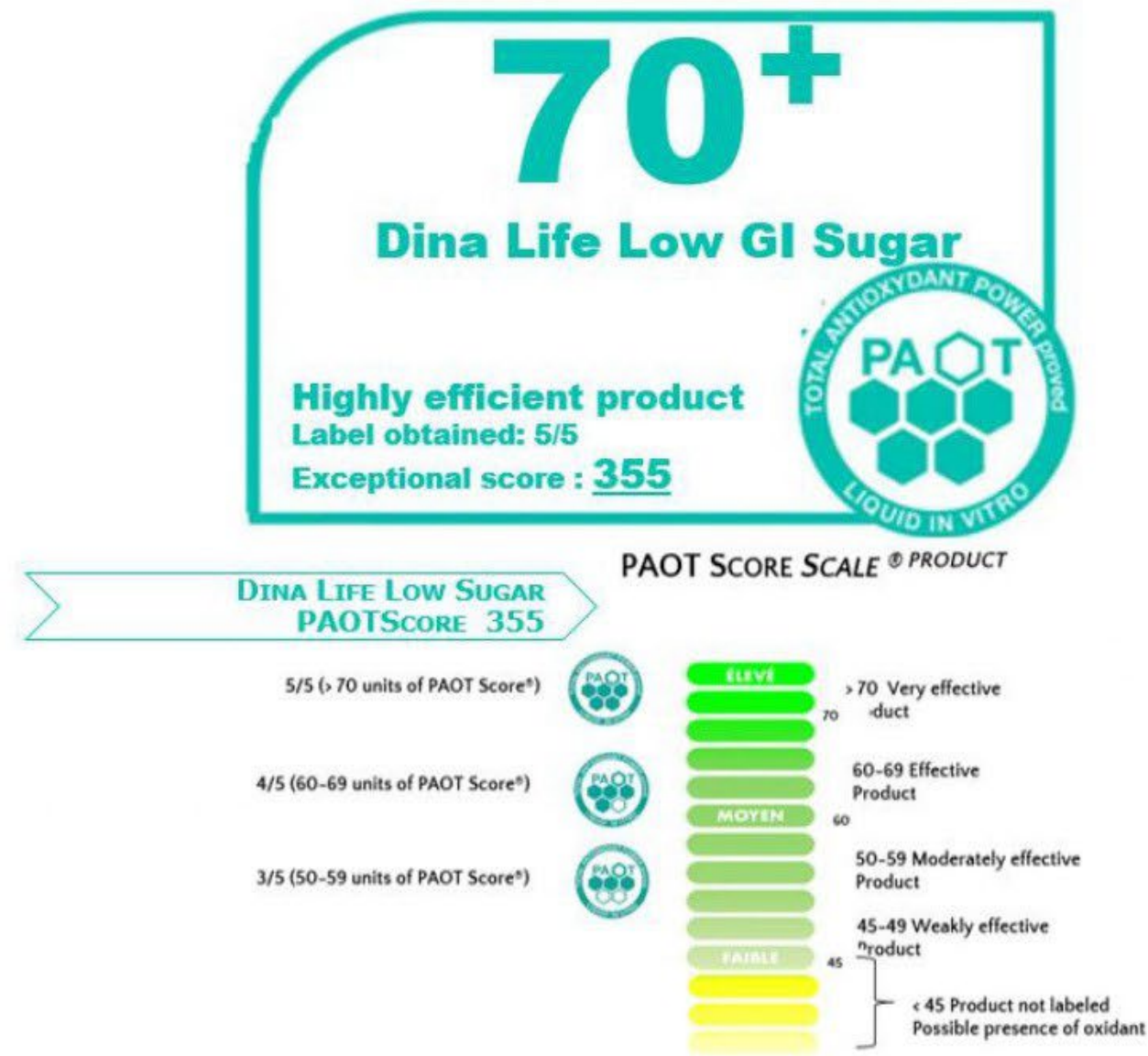
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**European Institute  
of Antioxidants**  
Excellence in bioavailability



# Certificate of labeling

PAOT LIQUID Technology™

*Invitro tested product*

Interconnecting Certified characteristics:

Certificate N°: **95024PLOMNISUG04EU/FR**

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**OMNICANE LTD**

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Made in: NANCY

Chairman of the Committee

Date : June, 22, 2024

N° : **Dina Life Antioxidant Sugar**



# PAOT TOTAL ANTIOXIDANT POWER (PAOTSCORE)<sup>1</sup>

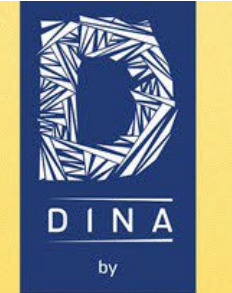
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by  
omnicane





