Concepts that can be realized with a pea-based NUTRIOSE®

- Pea-based NUTRIOSE® is available and can be used in food products such as:
 - Baked goods (including, but not limited to, biscuits and cookies, cakes and pastries, bakery fillings and toppings),
 - Cereals and snacks (including, but not limited to, cereal bars, breakfast cereals, coated nuts, savory snacks,
 - Dairy and dairy alternatives (including, but not limited to, beverages, deserts, ice-creams and sorbets),
 - Confectionary (including, but not limited to, wine gums and jellies),
 - Sport nutrition (including, but not limited to, bars, meals and beverages),
 - Weight-management (including, but not limited to, bars, meals and beverages),
 - Senior nutrition (including, but not limited to, bars, meals and beverages),
 - Clinical nutrition, Nutritional supplements and Beverages (including, but not limited to, powder drinks, fruits juices, ready-to-drink beverages).
- In this document, all concepts and recipes attached to them were originally developed with NUTRIOSE® FB soluble fibre (wheat-based) or NUTRIOSE® FM soluble fibre (corn-based).
- All these concepts and recipes can be realized with a pea-based NUTRIOSE® soluble fibre (NUTRIOSE® Pea EXP).

Content	Pages
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Instant tomato soup for healthy eating	.45-46
NutriDelicious sugar-free biscuits	
Nutrisfaction 100% vegetable meal replacement bar, 25% protein	
Have a refreshing fibre boost, twice a day!	.51-52
Sugar-free cupcake, Manage blood glucose with indulgence	
Table top fibre, boost easily your fibre intake	
Boost ANTIOXIDANT potential of Chlorella thanks to NUTRIOSE®	
Optimize antioxidant potential of Chlorella thanks to NUTRIOSE®	.59







Rebalance sugars an irresistible sandwich biscuit at optimum cost



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BAKING SOLUTIONS

Rebalance sugars an irresistible sandwich biscuit at optimum cost

NUTRIOSE® FM/FB 10 KEY FACTS

- Resistant dextrins produced from cereals (wheat or maize)
- Outstanding digestive tolerance
- Low sugar content (approx. 10%)
- Rich in fibre (70%)
- Estimated caloric value (max) EU: 2Kcal/g
- · Food ingredient status
- A white powder with neutral taste
- Gluten-free maize origin
- GMO-free, Kosher and Halal certified

THE RECIPE LIST OF INGREDIENTS	Control	30% sugar reduction with NUTRIOSE® FM 10 (Detailed recipe: BI 49)
BISCUIT: 70%		
Wheat flour	57.6%	57.6%
Sugar	18%	12%
NUTRIOSE® FM 10	0%	
Water	18%	18%
Vegetable fat	13%	13%
Glucose syrup	2.5%	2.5%
Baking powders	0.5%	0.5%
	0.4%	0.4%
Favouring	0.3%	0.3%
Soy lecithin	0.2%	0.2%
FILLING: 30%		
Sugar	54.6%	
Vegetable fat	35.4%	35.4%
NŬTRIOSE® FM 10	0%	18.6%
Whole milk powder	10%	10%
Flavour	0.04%	0.04%

NUTRIOSE® FM 10 Key Benefits for Sandwich-Type biscuits

	BISCUIT	FILLING
Nutritional	Bulking agent to substitute parOutstandingly tolerated fibre so	rtially for sugar ource
Functional	High solubility, low viscosity Process conditions are identical to the control	Unchanged process conditions
Sensory	Neutral taste / White colour Maintains a pleasant taste and texture	Sweet taste and creaminess preserved

POSSIBLE CLAIMS

- Reduced in sugars (1)
- Non-GMO
- Rich in fibre (2)
- (1) Sugar reduction is at least 30% of a similar conventional product
- (2) At least 6g of fibre for 100g of product

NUTRITION FACTS

SERVING SIZE: 22g of Sandwich Biscuits (2 biscuits) made with NUTRIOSE® FM 10

Calories Protein 104kcal Protein 1.3g Protein of which sugars: 5.1g Protein Insoluble fibre: 0.2 Soluble fibre: 1.6

SERVING SIZE: 22g of Sandwich Biscuits (Control)

Calories Protein Carb 14.3g Fibre 0.2g Fat 110kcal 1.3g of which sugars: 7.3g insoluble fibre: 0.2 soluble fibre: 0.0

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NUTRIOSE® 14 exp.: key benefits for biscuit applications

Nutritional - Low sugar content (<5%) - Produced from renewable agricultural raw materials (wheat or maize)

- Very well tolerated

Functional - Bulking agent to substitute partially for sucrose (up to 30%)
- High solubility Low vice ceits:

- Neutral taste / White colour

- Texture preservation

Nutrition Facts Serving size: 100g of Spritzgebäck

Calories	Protein	Carb	Sugars	Fibre	Fat
508kcal	5.7g	53g	12.2g	3.9g	29.9g
25%	11%	20%	13.5%	16%	43%

* Percent GDAs are based on a 2,000 calorie diet.

Nutrition Facts Serving size: 100g of Mia Mandel

Calories 556kcal	Protein 9g	Carb 45.5g	Sugars 13.2g	Fibre 5g	Fat 37g
28%	18%	17%	15%	20%	53%
	Adult's	Guidelin	e Dailv An	nount *	

Possible claims



• Reduced in sugars • Source of fibre

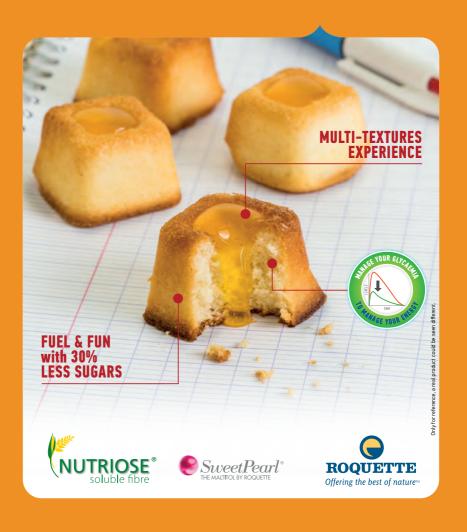
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Control sugar intake of your sweeties at school break!



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BAKING SOLUTIONS

Control sugar intake of your sweeties at school break!

KEY FACTS NUTRIOSE® soluble fibre

Achieve easily the daily fibre target, and monitor the sugar content of sweet snacks thanks to a highly tolerated ingredient.

 Soluble fibre from non-GMO corn or wheat

SweetPearl® maltitol

Monitor your sugar intake while enjoying a full sensory experience.

 Bulking agent from non-GMO corn and wheat

Both products are Kosher & Halal certified.

THE	RECIPE	(SUGAR REDU	CED FILLED	CAKE)
		FRIENTS (Det		

CAKE (72%)		FILLING (28%) %
Wheat flour	27.5	NUTRIOSE® FM 10,
Sucrose		soluble fibre26.4
Whole egg	18.5	Fruits puree 22.5
Canola oil	16.0	Roquette glucose syrup 15.0
	12.0	NEOSORB®, sorbitol
SweetPearl® P200		powder (humectant) 11.0
maltitol powder		Glycerin (humectant) 11.0
(bulking agent)	5.0	Water 5.8
Baking powder		CLEARAM® CR 30 20,
		modified waxy
		maize starch5.0
		Sucrose
		Citric acid,
		preservative & pectin 0.7
		and the control of th

Other recipes available: reduced sugar sandwich biscuit (LBAKCOO004) sugar-free biscuit (LPNLJWMA008)

NUTRIOSE® 06 soluble fibre & SweetPearl® maltitol KEY BENEFITS FOR SUGAR REDUCED FILLED CAKE

	NUTRIOSE® 10 soluble fibre	SweetPearl ® maltitol
Nutritional	Bulking agent to reduce sugar content in fruit filling up to 50% Low caloric content: 2 Kcal/g Outstandingly tolerated fibre source (70% on D.S.) Low glycemic response: 44	Bulking agent to substitute sugar in cake (potential up to 100%) Low caloric content: 2.4 Kcal/g Very low glycemic response: 29
Functional	• Easy to handle (high solubility, low viscosity)	Low molecular weight of SweetPearl® is particularly efficient to maintain soft texture of cakes
Sensory	Neutral taste	Preserves full taste

SUGGESTED CLAIMS* (EU)

- Reduced in sugars
- · Rich in fibre
- · Lowering glycemic response

*Information based on EU regulations. Subject to applicable local laws and regulations.

NUTRITION FACTS SERVING SIZE: 30g of sugar reduced filled cake

 Calories 102kcal
 Protein 1.2g
 Carb 15g 0f which sugars: 6.0g 0f which polyols: 2.1g
 Fibre 1.8g
 Fat 4.3g
 O.1g

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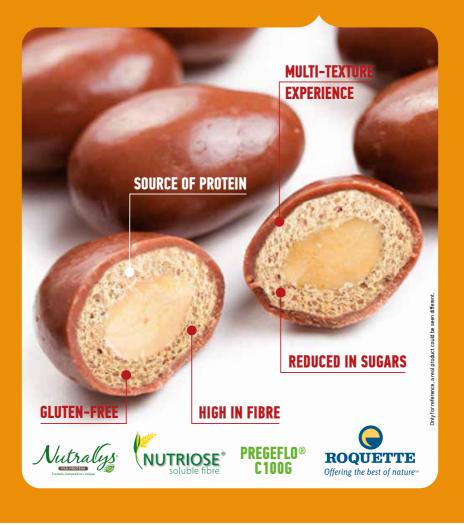
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Healthy Enjoyable crunchy choco bites



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NUTRALYS® pea proteins

- High quality plant protein from the yellow pea
- 84% protein (DS)
- · Environmentally friendly culture

PREGEFLO® C100G starch

- Pre-cooked maize starch rich in amylopectin
- Coarse particule size
- Cold viscosity

NUTRIOSE® FM10 soluble fibre

- Produced from maize
- 70% fibre (DS), 2 Kcal/g
- Outstanding digestive tolerance

Above products are: consumer-friendly labelling, Gluten-free, non-GMO, Kosher and Halal certified

THE RECIPE (CRUNCHY CHOCO BITES) LIST OF INGREDIENTS

(Detailed recipe: LSNKCSK001)

	70
Almonds	43.8
Dark chocolate coating	20.0
Water	8.2
NUTRALYS® pea proteins	8.0
PREGEFLO® C100G starch	8.0
NUTRIOSE® FM10 soluble fibre	5.5
Sucrose	5.0
Low fat cocoa powder	
Flavour	0.2
Wax	qs

Other recipe available:

Crunchy caramel bites LSNKCSK002

NUTRALYS® PEA PROTEINS, NUTRIOSE® FM10 and PREGEFLO C100G KEY BENEFITS FOR CHOCO BITES

NET DENETITS FOR CHOCO DITES			
	NUTRIOSE® FM10 soluble fibre	NUTRALYS® pea proteins	PREGEFLO® C100G starch
Nutritional	Source of very well tolerated fibre To substitute partially sugars	Clinically proven benefits on muscle mass and satiety Easily digested protein Not a major allergen	Gluten-free
Functional	High solubility and good binding properties to coat nuts Excellent stability to process and shelf-life	Easy to use in nut coating (dry-mixing, water absorption and expansion)	Excellent coating properties: Good powder dispersibility leading to more even coating Texture variations (from crispy to crunchy) obtained through simple formulation changes
Sensory	Neutral taste Preserved crispiness of the biscuit coating	Homogeneous and crispy structure of biscuit coating Optimized sensory profile with warm flavours (ie: expresso, caramel, dulce de leche)	Neutral taste New texture sensations

SUGGESTED CLAIMS

- Source of protein(1) Gluten-free(3) Non-GMO(5)
- High fibre⁽²⁾
 Reduced in sugars⁽⁴⁾
- (1) At least 12% of the energy value provided by protein (2) Contains at least 6g of fibre per 100g of finished product
- (3) <20 ppm of gluten
- (4) At least 30% of a similar conventional product
- (5) Accords with EU regulations

NUTRITION FACTS SERVING SIZE: 20g (10 bites approx.)

Calories | Proto 103 kcal | 3.4 g

Carb
6.5g
Of which sugars: 3.0

Fibre 2.6 g

ibre Fat 1.6g 6.5g

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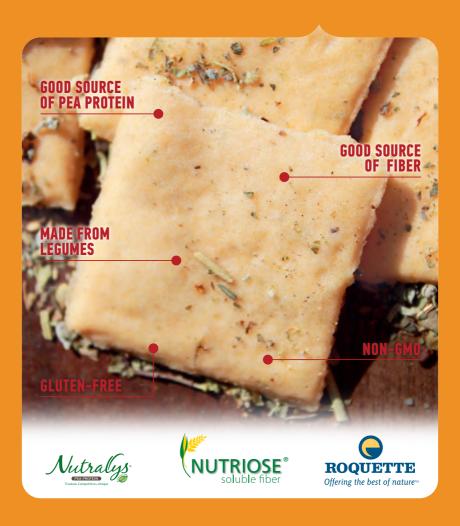
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Indulge yourself, include protein from peas and fiber in your crackers!



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BAKING SOLUTIONS

Indulge yourself, include protein from peas and fiber in your crackers!

KEY FACTS NUTRALYS® pea protein

- Unique way to create novel high protein snacks
- Sustainable source of plant proteins
- Non-GMO and gluten-free

NUTRIOSE® Soluble Fiber

- Non-GMO soluble fiber
- Consumer-friendly ingredient
- · Excellent digestive comfort
- Gluten-free

Both food ingredients are Kosher and Halal certified.

THE RECIPE (CRACKERS) LIST OF INGREDIENTS (Detailed recipe: RAI BFC 96) Pea starch .30.3% Water .25.6% NUTRALYS® pea protein .16.3% Coconut oil .11.6%

NUTRIOSE® soluble fiber (corn)......7.4%

PREGEFLO® corn starch......7.8%

NUTRALYS® pea protein and NUTRIOSE® soluble fiber KEY BENEFITS FOR PEA PROTEIN CRACKERS

	NUTRALYS® pea protein	NUTRIOSE® soluble fiber
Nutritional	High protein content allowing a good source of protein claim Allergen-friendly, Gluten-free Adapted to a vegan diet	Outstanding tolerated fiber source Gluten-free, allergen-friendly Low calorie: 2kcal/g
Functional	Good water-binding and gelling properties enabling a good handling of the dough and the creation of good structure in snacks Very good synergy with pea starch	Bulking powder, easy to handle Perfect fiber stability to baking process
Sensory	Great taste with a plant base to keep hunger at bay	Neutral taste Maintains a pleasant crispiness and a crunchy texture, ideal for snacking and a crunchy texture.

POSSIBLE CLAIMS (USA)

- · Good source of protein
- · Good source of fiber
- Zero sugar
- Non-GMO
- Gluten-free
- Vegan
- Cholesterol free

NUTRITION FACTS SERVING SIZE: 30g of pea protein c<u>rackers</u>

Calories Pro

otein | Ca

Carb
16g
Of which sugars 9

Fiber 3g Fat 5g

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On-the-go breakfast bits for a healthy start to the day



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KEY FACTS NUTRALYS® Pea BF

- Highly purified plant-based protein extracted from the yellow pea
- Specifically designed for protein-enriched baked goods such as bread, biscuits, cereals and bars
- Low viscosity and low solubility

NUTRIOSE® FM10

- Resistant dextrin produced from maize
- Outstanding digestive tolerance
- Low sugar content (approx. 10%)
- Rich in fibre (70%)
- Estimated caloric value (max.) EU: 2 Kcal/g
- White powder with neutral taste

Both food ingredients are Gluten-free, GMO-free, Kosher and Halal certified

THE RECIPE	
(BETTER-FOR-Y	OU BREAKFAST BITS)
LIST OF INGRE	DIENTS (Detailed recipe: BFC 31)

64%-protein crisps (NUTRALYS® Pea	BF,
rice flour, wheat protein)	34%
Chocolate crisps	16%
NUTRIOSE® FM 10	12%
Glucose syrup	8.3%
Skimmed milk powder	
Shortening	5.5%
Sucrose	5%
NEOSORB® sorbitol	5%
Glycerin	3.8%
Soya lecithin	
Salt	
Water	3.4%

NUTRALYS® Pea BF and NUTRIOSE® FM10 KEY BENEFITS FOR BREAKFAST CEREAL BITS

	NUTRALYS® Pea BF	NUTRIOSE® FM10
Nutritional	High protein content (85% protein on D.S.) allowing nutritional claims Effective combination of NUTRALYS® Pea BF and wheat proteins: a rich source of essential amino acids Easily digested protein	Bulking agent to substitute partially for sugar Outstandingly tolerated fibre source
Functional	Easy to use in extrusion process (dry-mixing, output pressure, water absorption and expansion)	High solubility and good binding properties to bind or coat cereals Unchanged process conditions
Sensory	Crispiness preserved	Sweet taste preserved Maintains a pleasant crunchiness

POSSIBLE CLAIMS

- High in protein(1)
- Rich in fibre⁽⁴⁾
- Enriched in protein⁽²⁾
 - Non-GMO
- Reduced in sugars(3)
- (1): At least 20% of the energy value provided by protein
 (2): Where the product meets the conditions for the claim 'source of' and the increase in protein content is at least 30% compared to a similar product
- (3): Sugar reduction is at least 30% of a similar conventional product (4): At least 6q of fibre for 100q of product

NUTRITION FACTS SERVING SIZE: 50g of breakfast cereal bits

 Calories
 Protein
 Carb
 Sugars
 Fibre
 Fat
 Polyol

 210kcal
 12.7g
 23g
 9.0g
 4.2g
 4.5g
 3.8g

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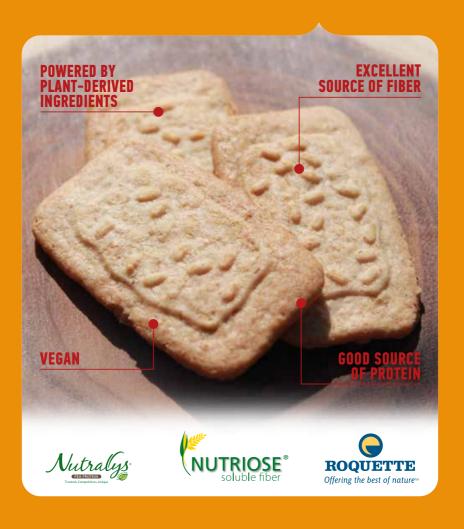
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Protein & fiber plant-powered Breakfast biscuits



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BAKING SOLUTIONS

KEY FACTS NUTRALYS® pea protein

- Nutritious plant proteins
- High quality protein extracted from the yellow pea
- Allergen-free
- · Easy & tasty proteins
- · Clinically-proven benefits on short-term satiety

NUTRIOSE® Soluble Fiber

- Neutral taste
- Soluble fiber extracted from non-GMO corn or non-GMO wheat
- · Consumer-friendly ingredient (Excellent digestive comfort)

Both food ingredients are Gluten-free, non-GMO, Kosher and Halal certified.

Protein & fiber plant-powered Breakfast biscuits

THE RECIPE (BREAKFAST BISCUITS) LIST OF INGREDIENTS (Detailed recipe: RAI BFC 97

Whole oat flour	16.5%
Whole wheat flour	16%
Sugar	16%
Rolled oats	14%
Palm oil	13%
NUTRALYS® pea protein	7.8%
NUTRIOSE® FB 06	
Glucose syrup (Pea)	3.5%
Sunflower lecithin	0.4%
Sodium pyrophosphate	0.3%
Baking powders	
Natural flavour	
Salt	0.2%

NUTRALYS® pea protein and NUTRIOSE® soluble fiber KEY BENEFITS FOR BREAKFAST BISCUITS

	NUTRALYS® pea protein	NUTRIOSE® soluble fiber
Nutritional	A high-protein content (85% on D.S) High digestibility (98%), n°1 source of arginine, Good source of BCCA, glutamic acid and Lysine Allergen-friendly, gluten-free, adapted to a Vegan's diet Cholesterol-free	Outstanding tolerated fiber source Gluten-free, allergen-friendly Low calorie: 2kcal/g
Functional	Ease-of-use	Bulking powder, easy to handle Rapid & Clear dissolution Fiber stability to process
Sensory	Great taste with a plant base to keep hunger at bay	Neutral taste Maintains a pleasant crispiness and a crunchy texture

POSSIBLE CLAIMS (USA)

- · Whole grain, Plant-based
- · Excellent source of Fiber
- · Good source of Protein
- Non-GMO
- No Cholesterol
- Vegan

NUTRITION FACTS 40 g of plant-powered Breakfast biscuits

170kcal

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Release your energy with low GI* biscuits



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SOLUTIONS

NUTRIOSE® FB/FM 06 soluble fibre

KFY FACTS

- Resistant dextrin produced from cereals (wheat or maize)
- · Consumer friendly labelling
- · Outstanding digestive tolerance
- · Sugar free, 2 Kcal/g
- Gluten-free (maize origin)
- · Non-GMO, Kosher and Halal certified

Release your energy with low GI biscuits

THE RECIPE (LOW GI BISCUIT) LIST OF INGREDIENTS

(Detailed recipe: LBAKCOO001) Control -30% sugars Whole wheat flour 6.5 6.5

NUTRALYS® soluble fibre

KEY BENEFITS FOR FOR LOW GI BISCUITS		
Nutritional	Fibre enrichment (85% fibre on D.S.) Clinically proven benefits on : Blood glucose management, supported by 6 clinical studies Low glycaemic response (GR:25) Sustained energy supply	
Functional	Bulking agent to substitute partially for sugar Easy to use: good solubility and dispersibility Stable in processing	
Sensory	Neutral taste White colour	

SUGGESTED CLAIMS

- Reduced in sugars (1)
- High fibre (2)
- Helps maintain healthy blood glucose levels (3)
- (1) At least 30% of a similar conventional product
- (1) At least 30% of a similar conventional product
 (2) At least 40 of fibre per 100g of finished product
 (3) Consumption of foods/drinks containing NUTRIOSE®
 instead of sugars induces a lower blood glucose rise after
 their consumption compared to sugar-containing foods/
 drinks. Other suggested front pack claims available, associated with more or less regulatory risk. Front of pack claims are the responsibility of the responsible for , placing on the market
- (4) Accords with EU regulations

NUTRITION FACTS SERVING SIZE: 20g (2 biscuits approx.)

Calories 91kcal	1.6g	Carb 12g Of which sugars: 2.5g	Fibre 1.8g	Fat 3.7g
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ROQUETTE

Offering the best of nature™

TASTIER and HEALTHIER Fruit flavoured drink





w.nutriosesolublefibre.com

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100 ml of this fruit flavoured drink (Recipe n°2) contains:

Calories 10 Kcal Carbs 1.6 g Sugars: 1.2g Proteins 0 g Fats 0 g Fibre 1.7 g

% adults's Guideline Daily Amount*

Possible claims

- "Light"
- No sugars added
- Calories reduced by 75%
 - "Source of fibre" (1.7g/100 ml)

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^{*} GDAs: Nutritional requirements vary depending on age, weight, height, gender and the level of physical activity.

^{**} Triangle testing for similarity (ISO 4120:2003) with 99 untrained panelists (consumers), conducted by the independent ISA Group, Lille, France – April 2011



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	key benefits for this isotonic beverage			
	GLUCIDEX® 19	NUTRIOSE® FB 06		
ritional	- Nutritive saccharides - Low osmolality for optimum absorption - 4 kcal/g	- Prebiotic fibre - Outstanding digestive tolerance - 2 kcal/g		

Nutritional	absorption - 4 kcal/g	- 2 kcal/g
Functional	- Bulking powder, easy to handle - Rapid & clear dissolution	- Bulking powder, easy to use - Rapid & clear dissolution
sensory	- Low sweetness	- Neutral taste

GLUCIDEX® 19 & NUTRIOSE® FB 06:

Nutrition Facts Serving size: 100g of powder					
Calories	Protein	Carb	Sugars	Fibre	Fat < 0.1g
320kcal	< 0.1g	73g	42g	16g	

Possible claims

• GMO-free



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NUTRIOSE® 06 soluble fibre: key benefits for quick-dissolving powder mix products

Nutritional

Clinically proven benefits on satiety:
 2 doses per day of "A Bit of a Boost" deliver more than 14g NUTRIOSE® 06 – the amount with a clinically proven effect on satiety⁽²⁾

- Calorie value: 2kcal/g
- High digestive tolerance

Functional

- Ease of use

- Process stability (heat treatment and acid condition)

Possible claims

• Suitable for vegetarians and vegans

• Rich in fibre(1)

• GMO-free

Sensory

- Neutral taste

Nutrition Facts

Serving size: 1 dose (7.5g) + 200ml water

Calories 27kcal Protein Og

Carb 1g 16% Fibre 5.7g 23%

Fat Og





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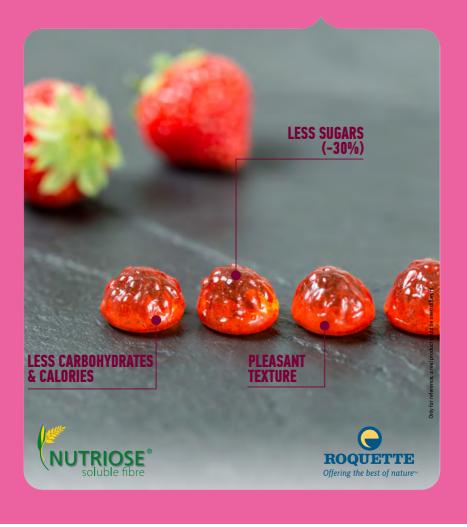
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^{*} Percent GDAs are based on a 2,000 calorie diet.



Smart jellies Reach your Sugar reduction targets



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Smart jellies reach you sugar reduction targets

KEY FACTS NIITRIOSE® FM10

- Resistant dextrin produced from maize
- Rich in fibre (70%)
- Low sugar content (approx. 10%)
- Neutral taste
- Gluten-free, non-GMO, Kosher & Halal

THE RECIPE (SMART JELLIES) LIST OF INGREDIENTS (Detailed recipe: LSWEJEM010)

	Control	Smart
		jellies
Glucose syrup	43.9%	30.3%
NUTRIOSE® FM10 soluble fibre	0%	21%
Sucrose	29.2%	18.4%
Gelatin	7.5%	8%
Citric acid	1.1%	1.6%
Flavour & colour	0.7%	0.3%
Residual moisture content	18%	20%

NUTRIOSE® FM10 VEY RENEETS FOR REDUCED SMART JELLIES

NEI DENEITI	TON REDUCED SMART SEELES
Nutritional	Very low content of mono and disaccharides Outstanding digestive tolerance Bulking agent to partially substitute sugars
Functional	Easy to use: good solubility and dispersibility Stable in processing
Sensory	Neutral taste profile

SUGGESTED CLAIMS* (EU)

- · Reduced in sugars
- · Rich in fibre
- * Information based on EU regulations. Subject to applicable local laws and regulations.

NUTRITION FACTS SERVING SIZE: 20g of control jellies

Fibre

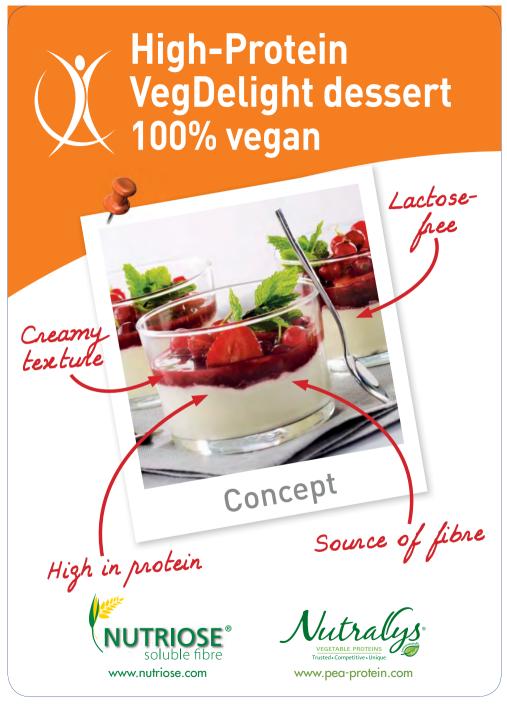
SERVING SIZE: 20g of smart jellies

Calories 57kcal Fat Og Of which sugars: 8g

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	A STATE OF THE STA
e C	■ Water
recipe	NUTRIOSE NUTRIOSE Sunflower oil Waxy maize starch N-200 NUTRALYS W hydrolysed wheat gluten 1.14% Flavours 0.4%
The	Trickeren (canageeran)

NUTRALYS® vegetable proteins and NUTRIOSE® soluble fibre: key benefits for an HP dessert					
NUTRALYS® vegetable proteins NUTRIOSE® soluble fil					
Nutrition	- Highly purified plant-based proteins - Balanced amino acid profile (rich in arginine, leucine and cysteine) - Complementary digestion kinetics: Intermediate-fast pea protein and fast hydrolysed wheat gluten - GMO-free protein sources	- High digestive tolerance - A GMO-free source of soluble fibre - Prebiotic fibre - High fibre content			
Function	- Good emulsifying properties (pea protein) - Process stability (heat treatment) - Ease of use - Good dispersibility	- Process stability - Ease of use			
Sensor'	- Optimised sensory profile	- Neutral taste			

Nutrition Facts Serving size: 100g of HP dessert Calories 113kcal 6% Carb 11.8g 3g 4g 6% Adult's Guideline Daily Amount *

Possible claims

- High-protein⁽¹⁾
 Source of fibre⁽²⁾
- Suitable for vegans and
- Source of fibre(2)
 Lactose-free/dairy-free
- vegans and vegetarians

[1] : more than 20% of the energy value provided by protein [2] : more than 3g / 100g $\,$



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^{*} Percent GDAs are based on a 2,000 calorie diet.



Protein-enriched vegetable drink for ageing well!



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NUTRALYS® vegetable proteins and NUTRIOSE® soluble fibre: key benefits for a HP vegetable drink

	NUTRALYS® vegetable proteins	NUTRIOSE® soluble fibre	
Nutritional	- Highly purified plant-based proteins (from yellow pea or wheat) - Balanced amino acid profile (rich in arginine, leucine and cysteine) - Easily digested proteins - Complementary digestion kinetics: intermediate-fast pea protein and fast hydrolysed wheat gluten - Lactose-free, isoflavone and GMO	- Exceptional digestive tolerance - A GMO-free source of fibre - Prebiotic fibre	
Functional	- Ease of use - Good dispersibility - Emulsifying properties (pea protein)	- High and stable fibre level - Ease of use	
Sensory	- Optimised sensory profile - Smooth texture	- Neutral taste	

Nutrition Facts

Serving size: 100ml of protein-enriched vegetable drink

Calories 116kcal
6%

Protein 7.6g 15% Carb 14.7g 5% Sugars 4.7g 3.5%

Fibre 3g 12% Fat 2.3g

Adult's Guideline Daily Amount

^{*} Percent GDAs are based on a 2,000 calorie diet



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Possible claims

- High protein (1)
- Source of fibre (2)
- · Lactose-free/Dairy-free
- Suitable for vegans and vegetarians

(1) more than 20% of the energy value provided by protein (2) more than 3g/100g fibre

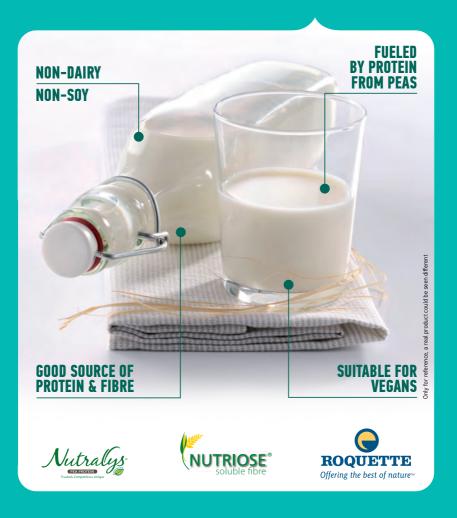
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Plant-Based Beverage



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DAIRY SOLUTIONS

KEY FACTS NUTRALYS® pea protein

- Nutritious plant protein
- High quality protein extracted from the yellow pea
- Allergen-free
- Non-GMO and Gluten-free

NUTRIOSE® soluble fibre

- Non-GMO soluble fibre
- Consumer-friendly ingredient
- Excellent digestive comfort
- Gluten-free

Both food ingredients are Kosher & Halal certified.



THE RECIPE (PLANT-BASED BEVERAGE) LIST OF INGREDIENTS

(Detailed recipe: TDAIMIL001)

- Water
- NUTRALYS® pea S85F
- NUTRIOSE® FM06
- Sugar
- Sunflower oil
- Emulsifier

NUTRALYS® pea protein and NUTRIOSE® soluble fibre KEY BENEFITS FOR PLANT-BASED BEVERAGES

SUSTAINA

	NUTRALYS® pea protein	NUTRIOSE® soluble fibre
Nutritional	A high-protein content (85% on D.S) allowing a good source of protein claim High digestibility (98%), n°1 source of arginine, Good source of BCAA, glutamic acid and Lysine Allergen-friendly, Gluten-free, adapted to a veg	Outstanding tolerated fibre source Gluten-free, allergen-friendly Low calorie: 2kcal/g
Functional	Ease-of-use A delicious milk alternative without soy or nuts Rapid & Clear dissolution	Bulking powder, easy to handle Perfect Fibre, stability to process
Sensory	Great creamy taste with rich mouth feel	Neutral taste

SUGGESTED CLAIMS* (ASIA)

- Allergen Friendly
- · Non-soy, Nut-free
- Good source of Protein & Fibre
- Cholesterol free
- Vegan
- * Information based on ASIA regulations. Subject to applicable local laws and regulations.

NUTRITION FACTS SERVING SIZE:

SERVING SIZE: 227g of plant-based nutritional drink

Calories 46kcal

Prote 3.0g Carb 4.4g

Fibre 1.5g

Fat 2.9g

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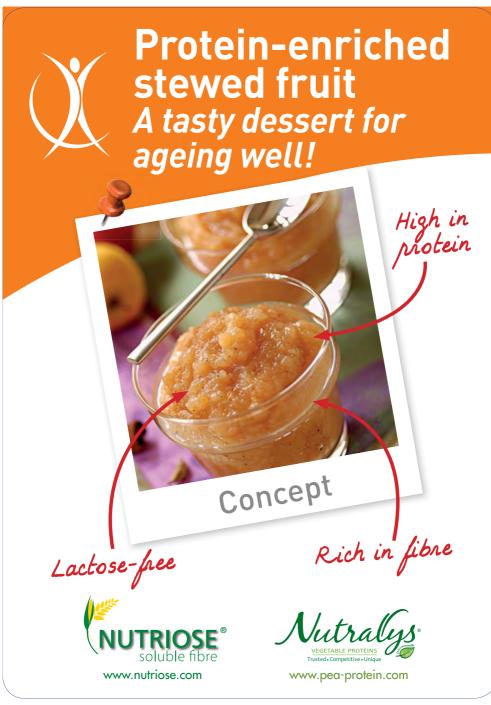


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NUTRIOSE® soluble fibre: key benefits for stewed fruit				
	NUTRALYS® vegetable proteins	NUTRIOSE® soluble fibre		
Nutritional.	intermediate-fast pea protein and fast hydrolysed wheat gluten - GMO-free protein sources	- High digestive tolerance - Prebiotic fibre - High fibre content		
Functional	- Ease of use - Good dispersibility - Stability to process (heat treatment)	- Stability to process (heat treatment) - Ease of use		
Sensory	- Optimised sensory profile - Smooth texture (avoid grittiness)	- Neutral taste		

Nutrition Facts Serving size: 100g of dessert

Calories 101kcal

Protein 5g 10%

Carb 16.6g Fibre 6g 24%

Fat 0.4g

* Percent GDAs are based on a 2,000 calorie diet.

Possible claims

- High protein (1)
- High fibre (2)
- Lactose-free
- · Suitable for vegetarians

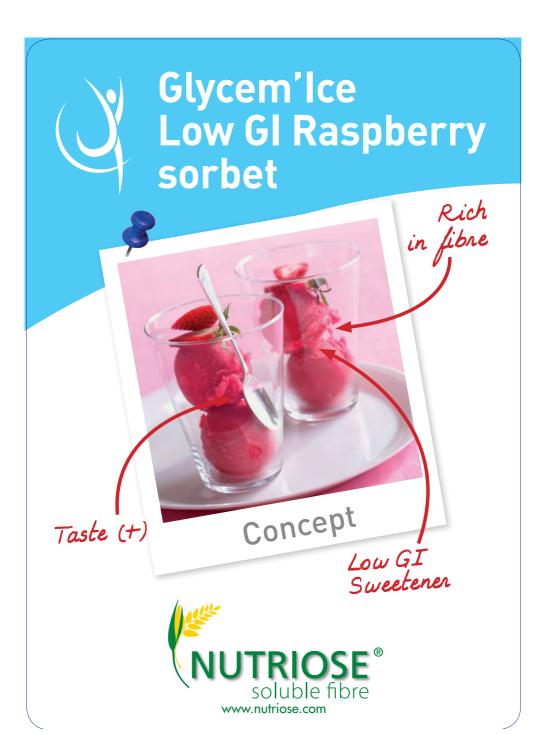
(1) more than 20% of the energy value provided by protein (2) more than $6g\,/100g$



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NEOSORB® sorbitol 8	& NUTRIOSE® soluble fibre:			
key benefits for low GI raspberry sorbet				

NEOSORB® sorbitol	NUTRIOSE® soluble fibre
Nutritional - 2.4 kcal/g - Low Glycaemic Index (9)	- 2 kcal/g - Low Glycaemic Index (25) - A GMO-free source of soluble fibre - Clinically proven effect on weight management (4)
Functional - Antifreeze properties - Liquid form	- Ease of use - Stability to process
Sensory - Sweetening index: 80% sucrose	- Neutral taste

Nutrition Facts

Serving size. Toog syrup Illix.						
Calories 75kcal	Protein 0.5g	Carb 15.3g	Sugars 3.9g	Polyols 8.7g	Fibre 15g	Fat 0.2g
3.8%	1%	5.7%	4.3%		60%	0.3%

^{*} Percent GDAs are based on a 2,000 calorie diet.



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Possible claims

- With no added sugars (1)
- Low sugar (2)
- Rich in fibre (3)

(1) Does not contain any added mono or disaccharides

- (2) No more than 5g/100g
- (3) More than 6g/100g
- (4) The soluble fibre NUTRIOSE® induces a dosedependent beneficial impact on satiety over

Nutrition Reasarch. Sept.2011

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High-Protein Bar for athletes



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NUTRALYS® pea protein: key benefits for this protein bar			
NUTRALYS® S85F			
Nutritional	 Highly purified protein isolate (85% protein on D.S) Good source of branched-chain AA, glutamic acid and lysine Intermediate-fast protein No allergen warning label required 		
Functional	- Good powder dispersibility - Cost-in-use optimisation		
sensory	- Optimised sensory profile		

Nutrition Facts Serving size: 100g protein bar (with chocolate coating)

Calories **Protein** Carb Fibre Sugars Fat 359kcal 26g 11g 11g 46q 18g 30%

* Percent GDAs are based on a 2,500 calorie diet.



- High protein (1)
- High fibre (2) GMO-free • Lactose-free • Gluten-free
- (1) more than 20% of the energy value provided by protein (2) more than 6g /100g



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SPORTS NUTRITION









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High Protein Bar for athletes

A 100% plant-based bar to help gain muscle mass!



NUTRALYS® pea protein offers...

Nutritional benefits:

- N°1 protein source of arginin
- Good source of BCAA, glutamic acid and leucine
- Intermediate-fast digestion kinetics
- Easy digestion

Benefits from vegetable source:

- Sustainability
- Affordability
- · GMO-free origin

Calories 359 kcal 14% Carbs 18 g 11 g 14% 30% 14% 44% 44% 44%

*GDAs: Nutritional requirements vary depending on age, weight, height, gender and the level of physical activity. (2500kcal).

Possible claims:
High protein(1)
Rich in fibre(2)
Lactose-free
GMO-free
Suitable for vegetarians

- More than 20% of the energy value by protein.
 More than 6% fibre, thanks to NUTRIOSE® soluble
- More than 6% fibre, thanks to NUTRIOSE® soluble fibre.

Ingredients: Glucose-fructose syrup, NUTRALYS® \$85F pea protein, NUTRIOSE® soluble fibre, water, rapeseed oil, sucrose, flavours, soya lecithin, salt.

Recipe Reference: PNU SP07

Thanks to a little of nature's best!







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replacement vanilla instant protein dessert 9g protein



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Meal replacement vanilla instant protein dessert 9g protein

NUTRALYS® pea protein **KEY FACTS**

- · High quality plant protein from the yellow pea
- · Consumer-friendly labelling
- Allergen-free status
- GMO-free protein source
- Kosher & Halal certified
- · Clinically-proven benefits on short-term satiety

THE RECIPE (INSTANT PROTEIN DESSERT) LIST OF INGREDIENTS (Detailed recipe: PNU WM09)

/ 0
29.7
25.0
20.9
7.3
4.5
3.5
2.3
1.8
1.5
1.2
1.0
1.0
0.3

NUTRALYS® S85 Plus KEY RENEEITS EOR AN INSTANT PROTEIN DESSERT

KET DENETHS FOR AR INSTART FROTEIN DESSERT			
Nutritional	Highly purified pea protein isolate (84% protein on D.S.) Good source of arginine, glutamic acid & branched-chain amino acids Easily digested protein (95%) Intermediate-fast pea protein: Good combination with milk protein to supply body with essential amino acids		
Functional	High solubility Low viscosity Good powder dispersibility in cold water Dairy protein substitution		
Sensory	Improved taste: Good association with sweet & fruity flavours with low beany notes Contributes to smooth texture		

POSSIBLE CLAIMS

- Source of fibre**

provided by protein *Source of fibre: At least 3g of fibre per 100g

NUTRITION FACTS SERVING SIZE: 25g powder

(to be reconstituted with 160 mL water)

Calories 98kcal

| Protein 9.2q

9.7a

2.8q

1.4q 2.3q

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protein bar for athletes 34% protein



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High protein bar for athletes

KEY FACTS

NUTRALYS® vegetable proteins

- Plant-based proteins isolated from the yellow pea and wheat
- Consumer-friendly labelling
- GMO-free. Kosher and Halal certified

NUTRIOSE® FM soluble fibre

- Soluble fibre extracted from maize
- Consumer-friendly labelling
- GMO-free, Kosher and Halal certified

THE RECIPE LIST OF INGREDIENTS (Detailed recipe: PNU SP 07)

Filling	%
Roquette glucose-fructose syrup 7081	26
NUTRALYS® WF, hydrolyzed wheat protein	16
Dark chocolate topping	15
NUTRALYS® pea XF, pea protein	11.5
NUTRALYS® pea BF, pea protein	11.5
NUTRIOSE® FM 06, soluble fibre	11.2
Sunflower oil	3
Sorbitol syrup	2.5
Defatted cocoa powder	
Others (flavours, amino acids, minerals, salt,	
emulsifier, vitamins)	2.4

NUTRALYS® & NUTRIOSE® KEY BENEFITS IN A HIGH PROTEIN BAR

	NUTRALYS® WF Soluble wheat protein	NUTRALYS® pea XF Pea protein	NUTRALYS® pea BF Pea protein	NUTRIOSE® FM 06 Soluble fibre
Nutritional	wheat on D.S) • Good source of argin • Easily digested prote • Complementary dige	Highly purified plant-based proteins (85% from pea/88% from wheat on D.S) Good source of arginine, BCAA and glutamic acid Easily digested proteins Complementary digestion kinetics: intermediate-fast pea protein and fast hydrolyzed wheat protein.		85% fibre on D.S. Excellent digestive tolerance
Functional	 Give greater softness Avoid grittiness Ease of use	and allow to aerate the	texture	Ease of use Process-stable
Sensory	 Optimized sensory pr 	ofile		,

POSSIBLE CLAIMS

- High protein⁽¹⁾
 Rich in fibre⁽²⁾
 GMO-free
- Suitable for vegetarians & vegans
- (1): More than 20% of the energy value provided by protein
- (2), more than 4% fibre

NUTRITION FACTS SERVING SIZE: 40g (one bar)

Calories | Pr 151kcal | 13

Protein 13.7g Carb 12.8g Of which sugars: 9.2g Of which polyols: 0.6g Fibre 3.1g

Fat

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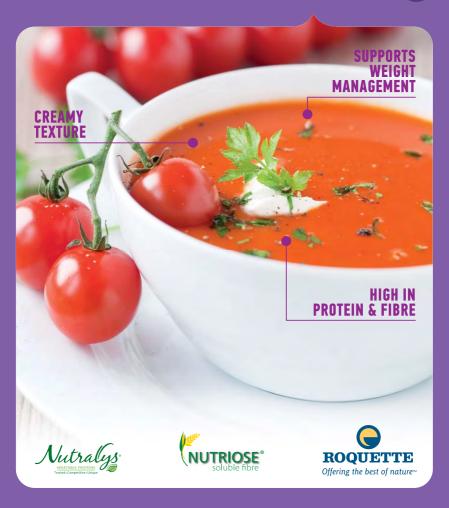
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Instant tomato soup for healthy eating



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Instant tomato soup for healthy eating

KEY FACTS		
NUTRALYS®	vegetable	proteins

- Plant-based proteins isolated from the yellow pea and wheat
- · Highly purified protein ingredients
- Good complementarity

NUTRIOSE® soluble fibre

- Resistant dextrin obtained from cereals (wheat or maize)
- Allergen-free status if maize origin Both ingredients are: GMO-free, Kosher & Halal certified and can benefit from a consumer-friendly labelling

THE RECIPE (INSTANT TOMATO SOUP)	
LIST OF INGREDIENTS (Detailed recipe: PNU HP01)
9/	Ó
Tomato powder	
GLUCIDEX® IT 21, dried glucose syrup 12	2
Native potato starch	2
Native potato starch	3
GLUCIDEX® IT6, maltodextrin6.7	
Sugar	5
Skimmed milk powder	5
Salt	
Native waxy maize starch	
NUTRIOSE® FM06, soluble fibre	:
NUTRALYS® WF, hydrolyzed wheat protein 1.0	
Sun-dried tomato granules	
Sunflower oil	
Basil leaves	
Tomato flavour	
Citric acid	
Ground black pepper	,
ordaria black pepper	

NUTRALYS® vegetable proteins and NUTRIOSE® FM06 KEY BENEFITS FOR INSTANT TOMATO SOUP HIGH IN PROTEIN AND FIBRE

		NUTRALYS® vegetable proteins	NUTRIOSE® FM06, soluble fibre
	Nutritional	Highly purified plant-based proteins (85% protein on D.S) Good source of arginine, BCAA ⁽¹⁾ and glutamic acid Easily digested proteins Complementary digestion kinetics: intermediate-fast pea protein and fast hydrolyzed wheat protein	85% fibre on D.S Excellent digestive tolerance Calorie value: 2kcal/g Clinically-proven effect on weight management
	Functional	Protein enrichment • Good solubility Fine particle size to avoid grittiness in mouth Ease of use	High solubility Ease of use Stability to process
	Sensory	Optimised sensory profile	Neutral taste / White colour

(1) Branched-chain amino acid

POSSIBLE CLAIMS

- High protein⁽¹⁾ High fibre⁽²⁾ Non-GMO

NUTRITION FACTS

SERVING SIZE: 50a powder (to be reconstituted with 250ml water)

Calories 157kcal

27.1q

Sugars 9.9q

1.5g

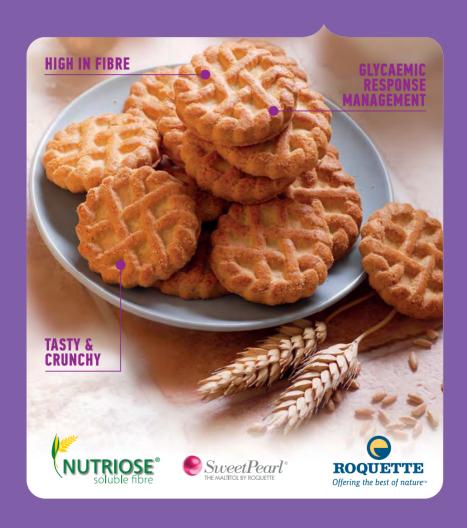
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NutriDelicious sugar-free biscuits



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Since regulations vary globally, please consult with local authorities or regulatory experts for substantiation of claims for your product and region of sale.

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NutriDelicious sugar-free biscuits

KEY FACTS **NUTRIOSE® soluble fibre**

- Soluble fibre produced from maize or wheat
- Consumer-friendly labelling
- GMO-free, Kosher and Halal certified

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SweetPearl® maltito

- Bulk sweetener produced from wheat or maize
- Polyol most like sucrose
- GMO-free, Kosher and Halal certified

THE RECIPE LIST OF INGREDIENTS Contr	(Detailed r	ecipe: PNU WM08) Sugar-free biscuit
Water	6.5	6.5
Sodium bicarbonate	0.35	0.35
Ammonium bicarbonate	0.15 .	0.15
Sucrose	15 .	
Glucose syrup 4779 SweetPearl® P200, maltitol	2.5 .	
SweetPearl® P200, maltitol		8.7
NUTRIOSE® 06, soluble fibre.		6.3
Vegetable fat, Biscuitine 500.		
Soy lecithin		
Wheat flour		
Whole wheat flour		
Oat flakes		
Skimmed milk powder	1.5 .	
Sodium pyrophosphate		
Salt Vanilla powder		
Intense sweetener (acesulfar	U.Z.	n n2
intense sweetener (acesuliai	ille r()	0.02

NUTRIOSE® 06 soluble fibre and SweetPearl® maltitol KEY BENEFITS FOR SUGAR-FREE MORNING BISCUIT

	NUTRIOSE® 06 soluble fibre	SweetPearl® maltitol
Nutritional	85% fibre on D.S. Calorie value: 2kcal/g Safe for teeth Low Glycaemic response (GR: 25) Excellent digestive tolerance Clinically proven effect on weight management	Calorie value: 2.4 kcal/g Safe for teeth Low Glycaemic response (GR: 29) Good digestive tolerance
Functional	Sugar-free solution Fibre enrichment Ease of use: good solubility and dispersibility Stable in processing	Best sugar replacer Good functionality: melts during cooking and recrystallizes as sugar Ease of use
	At a large state of	0 /

POSSIBLE CLAIMS

- Sugar-free * High fibre ** Non-GMO
 * no more than 0.5g of sugars per 100g finished
 product
- ** At least 6g of fibre per 100g finished product

NUTRITION FACTS

SERVING SIZE: 20g (2 biscuits approx.)

Calories | Protein | Carb | Sugars | Polyols | Fibre | Fat 87kcal | 1.7g | 10.1g | 0g | 1.9g | 1.8g | 3.7

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Nutrisfaction 100% vegetable meal replacement bar 25% protein



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Nutrisfaction 100% vegetable meal replacement bar 25% protein

KFY FACTS

NUTRALYS® vegetable proteins

- Plant-based proteins isolated from the yellow pea and wheat
- Consumer-friendly labelling
- GMO-free, Kosher and Halal certified

NUTRIOSE® FM L soluble fibre

- Soluble fibre extracted from maize
- Consumer-friendly labelling
- GMO-free. Kosher and Halal certified

THE RECIPE
LIST OF INGREDIENTS (Detailed recipe: PNU WM 06)

LIGI OF INTOTELLITIO (Detailed recipe: 110	111100/
Filling	%
Roquette glucose-fructose syrup 7081	26
NUTRALYS® pea BF, pea protein	23.2
Chocolate topping	15
GLUCIDEX® 21, dried glucose syrup	14.2
NUTRIOSE® FM 06 L, soluble fibre	7
NUTRALYS® WF, hydrolyzed wheat protein	5.8
Sunflower oil	4.2
Sorbitol syrup	3
Others (flavours, amino acids, minerals, salt,	
emulsifier, vitamins	2.3

Coating: Sugar-free dark chocolate with SweetPearl® maltitol (8% polyols in bar)

NUTRALYS® & NUTRIOSE® KEY RENEEITS IN A MEAL REPLACEMENT BAR

	NUTRALYS® WF Soluble wheat protein	NUTRALYS® BF Pea protein	NUTRIOSE® FM 06L Liquid soluble fibre
Nutritional	Highly purified plant-based proteins (85% from pea/88% from wheat on D.S) Easily digested proteins Complementary digestion kinetics: intermediate-fast pea protein and fast hydrolyzed wheat protein.		85% fibre on D.S. Excellent digestive tolerance
Functional	Give greater softness and allow to aerate the texture Ease of use		Ease of use Process-stable
Sensory	Optimized sensory profile Convenient particle size		,

POSSIBLE CLAIMS

- High protein(1) Rich in fibre(2) GMO-free
- Suitable for vegetarians & vegans

NUTRITION FACTS

SERVING SIZE: 40g (one bar) (2 bars = 1 meal)

Calories Protein 150kcal 9.8a 17.6a

Of which sugars: 7.2g Of which polyols: 3.2g 4.5a 2.5g

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Have a refreshing fibre boost twice a day!



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Have a refreshing fibre boost, twice a day!

NUTRIOSE® soluble fibre KFY FACTS

Reach easily your nutritional goals thanks to the only sugars-free fibre with proven health benefits

- · Clinically-proven benefits on digestive health & blood glucose management
- Excellent tolerance
- Easy to use everyday
- Sugars-free
- Non-GMO, Kosher & Halal certified

THE	RECIPE	(HIGH	FIBRE	POWDER	MIX	DRINK)	
LIST	OF INGR	EDIEN	NTS (n	etailed rec	ine: I	PNUWMAO	n

	%
NUTRIOSE® 06, soluble fibre	95.5
Flavours	2.6
Citric acid	0.9
Intense sweetener (acesulfam K)	0.5
Colouring agents	0.5

NUTRIOSE® 06 soluble fibre KEY BENEFITS FOR QUICK-DISSOLVING POWDER MIX PRODUCTS

APPRO

Nutritional	Clinically-proven benefits on: • Digestive health - 1 dose per day of powder mix drink delivers more than 8g NUTRIOSE® 06, the amount with clinically-proven benefits on digestive health* • Blood glucose management - supported by 6 clinical studies** Low Glycaemic Response (GR:25)
Functional	Ease of use Process stability (heat treatment and acid conditions)
Sensory	Neutral taste

SUGGESTED CLAIMS

- Non-GMO (4)
- Non-GMU (4)

 (1) More than 6g per 100mL finished product (2) No more than 0.5g of sugars per 100mL finished product (3) Consumption of foods/drinks containing NUTRIOSE® instead of sugars induces a low blood glucose rise after their consumption compared to sugar-containing foods/drinks. Other suggested front pack claims available, associated with more or less regulatory risk Front of pack claims are the responsibility of the responsible for placing on the market (4) Accords with EU regulations

NUTRITION FACTS SERVING SIZE: 1 dose (16g) + 200mL water

Calories Protein Carb Fat 2.8g 35kcal Og Og Of which sugars: Og

- * Lefranc-Millot C., Guerin-Deremaux L., Wils D., Neut C., Miller Le, Saniez Degrave MH, Impact of a resistant dextrin on intestinal ecology: How altering the digestive ecosystem with NUTRIOSE®, a soluble fiber with prebiotic properties, may be beneficial for health. The Journal of International Medical Research, 2012; 40(1): 211–224.
- ** Lefranc-Millot C. et al., Glycemic and insulinemic response of NUTRIOSE in healthy volunteers of different countries, 22nd European Congress on Obesity, Prague, Czech Republic, 6-9th 2015.

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Sugar-free cupcake Manage blood glucose with indulgence



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Sugar-free cupcake Manage blood glucose with indulgence

KFY FACTS NUTRIOSE® soluble fiber

The sugar-free soluble fiber offering health benefits for specific needs

- Resistant dextrin produced from corn or wheat
- · Health benefits on digestive health & blood glucose management
- · Gluten-free, non GMO
- · Kosher & Halal certified

SweetPearl® maltitol

The sugar-like solution that helps you manage blood glucose with indulgence

- Bulk sweetener produced from corn
- Kosher & Halal certified

THE RECIPE (SUGAR-FREE CUPCAKE) LIST OF INGREDIENTS

(Detailed recipe: GPNUWMA001)

- SweetPearl® P200
- All purpose flour
- · Butter, unsalted
- Whole egg (fresh, raw)
- LYCASIN® 80/55 maltitol syrup
- Teton alkalized Cocoa powder, tempered
- NUTRIOSE® FM06 soluble fiber
- Water
- Vanilla extract
- · Baking powder
- · Acesulfame potassium

NUTRIOSE® 06 soluble fiber & SweetPearl® maltitol KEY BENEFITS FOR SUGAR-FREE CUPCAKE

Nutritional	85% fiber on D.S. Calorie value: 2kcal/g Low Glycaemic response (GR: 25) Excellent digestive tolerance	Calorie value: 2.4 kcal/g Low Glycaemic response (GR: 29) Good digestive tolerance
Functional	Sugar-free solution Fiber enrichment Ease of use: good solubility and dispersibility Stable in processing	Best sugar replacer Good functionality: melts during cooking and recrystallizes as sugar Ease of use
Sensory	Neutral taste	Sweet taste (sweetening index: 80% sucrose)

NUTRIOSE® 06 soluble fiber | SweetPearl ® maltitol

SUGGESTED CLAIMS* (US)

Sugar-free(1)
 Good source of fiber(2)

z) Good source of fiber: 2.5 to 5g fiber per serving Information based on USA regulations. Subject to a

NUTRITION FACTS

SERVING SIZE 40a

Amount per serving

CALORIES 120

Calories from	m fat 6
% Dai	ly value
Total fat 7g	11%
Saturated fat 5g	22%
Trans fat 1g	
Cholesterol 40mg	12%
Sodium 150 mg	6%
Total carbohydrate 21g	7 %
Dietary fiber 3g	12%
Sugar alcohols 11g	
Protein 2a	

Vitamin A 5% Vitamin C 0% Calcium 4% Iron 7%

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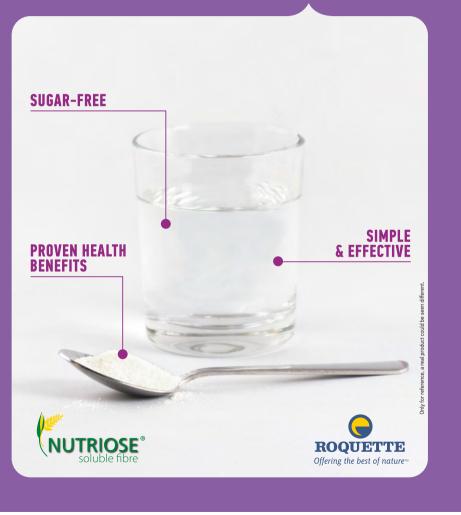


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Table top fibre Boost easily your fibre maake



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Table top fibre Boost easily your fibre intake

NUTRIOSE® soluble fibre KFY FACTS

The sugar-free soluble fibre that helps you reach cosily your daily targets

- Clinically-proven benefits on digestive health & blood glucose management
- Excellent tolerance
- Easy to use everyday
- Sugar-free
- Non-GM. Kosher and Halal certified

THE RECIPE (TABLE TOP FIBRE) LIST OF INGREDIENTS

%

NUTRIOSE® 06 soluble fibre (maize)......

NUTRIOSE® 06 soluble fibre KEY BENEFITS FOR QUICK-DISSOLVING POWDER MIX PRODUCTS

Nutritional	Clinically-proven benefits on: • Digestive health - 2 sticks per day of this table top fibre deliver more than 8g NUTRIOSE® 06, the amount with clinically-proven benefits on digestive health • Blood glucose management - supported by 6 clinical studies • Low Glycaemic Response (GR:25)
Functional	Ease of use Quick dispersion and dissolution
Sensory	Neutral taste

POSSIBLE CLAIMS (INDIA)

- Sugar-free⁽²⁾
- Non-GM⁽³⁾

NUTRITION FACTS SERVING SIZE: 2 sticks - 10a

Calories Protein 10kcal <0.1q <0.1g

Carb 1.6q Of which sugars: Og

Fat Oq

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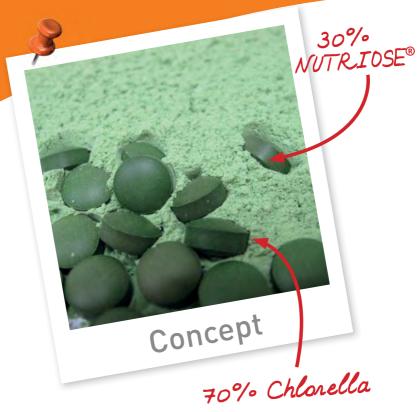


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Boost ANTIOXIDANT potential of Chlorella thanks to NUTRIOSE®





ROQUETTE Chlorella

www.nutriose.com

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Roquette Chlorella

- A fresh-water microalgae grown in a closed environment
- A cocktail of nutritional compounds
 - ✓ amino-acids ✓ vitamins
 - ✓ pigments
- ✓ minerals

NUTRIOSE®

- A soluble dietary fibre obtained from renewable vegetal sources (wheat or maize)
- With prebiotic properties leading to an overall improvement of gut environment^[1]

Roquette Chlorella + NUTRIOSE®, a synergistic effect in the colon^[2]

This synergistic effect was evaluated on some fecal parameters (enzymes, antioxidant activity) after administration of chlorella, NUTRIOSE® or a combination of both in rat model for 21 days.

The results display a synergistic increase in the enzymatic and antioxidant activities of the feces when using a combination of the fibre and the microalga. This activity is higher than a cumulative effect.

NUTRIOSE® might stimulate the growth of some gut bacteria (Bacteroides). These bacteria secrete enzymes that may hydrolyze the cell wall of chlorella, therefore releasing some components favoring the growth of the colonic microflora. In parallel, antioxidant compounds (chlorophyll and vitamins) might be released in the colon, and increase the antioxidant activity of the feces.



Food containing dietary antioxidant may substantially modify the antioxidant activity of the feces, used as a marker of intestinal content. This might have potential implications in terms of colonic health. In this way, preliminary studies have shown that antioxidants might induce reduction in some cytokine response in vitro in gut tissues from patients suffering of inflammatory bowel diseases.

[1] Lefranc-Millot C. et al. J Int Med Research 2012 [2] Patents W02010007332A2 and W02010007331A2 [3] Garsetti M. et al. Br J Nutr 2000 [4] Reimund JM et al. Eur J Clin Investig 1998



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SENIOR NUTRITION - ANTIOXIDANT









1 ш

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Optimize antioxidant potential of Chlorella thanks to NUTRIOSE®

Roquette Chlorella

- A fresh-water microalgae grown in a closed environment [1]
- A cocktail of nutritional compounds
 - √ amino-acids
- √ vitamins
- ✓ pigments
- ✓ minerals

NUTRIOSE®

- a soluble dietary fibre obtained from renewable vegetal sources (wheat or maize)
- with prebiotic properties leading to an overall improvement of gut environment [2]

Roquette Chlorella + NUTRIOSE®, a synergistic effect in the colon (3)

This synergistic effect was evaluated on some fecal parameters (enzymes, antioxidant activity) after administration of chlorella, NUTRIOSE® or a combination of both in rat model for 21 days.

The results display a synergistic increase in the enzymatic and antioxidant activities of the feces when using a combination of the fibre and the microalga. This activity is higher than a cumulative effect.

NUTRIOSE® might stimulate the growth of some gut bacteria (Bacteroides). These bacteria secrete enzymes that may hydrolyze the cell wall of chlorella, therefore releasing some components favoring the growth of the colonic microflora. In parallel, antioxidant compounds (chlorophyll and vitamins) might be released in the colon, and increase the antioxidant activity of the feces.

Food containing dietary antioxidant may substantially modify the antioxidant activity of the feces, used as a marker of intestinal content. This might have potential implications in terms of colonic health. 49 In this way, preliminary studies have shown that antioxidants might induce reduction in some cytokine response in vitro in gut tissues from patients suffering of inflammatory bowel diseases. (5)

Neterences: (1) Chlorella sp. produced in photobiorector in Roquette Klötze facility (2) Lefranc-Millot C. et al. *J Int Med Research 2012* (3) Patents W02010007332A2 and W02010007331A2

(4) Garsetti M. et al. Br J Nutr 2000
(5) Reimund JM et al. Eur J Clin Investig 1998







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