

PRODUCT SPECIFICATION

DATE OF ISSUE
27-11-2024

ORGANIC AGAR-AGAR POWDER




PRODUCT
CODE: 55



T281024M000000A110624

1. PRODUCT IDENTIFICATION

1.1 Supplier product information

Product name	Organic agar-agar powder		
Product code	55		
Product number	Content	EAN	Packaging
1735	45g	8718309832551	Plastic jar and screw lock cap with warranty seal. Jar =  Cap = 
1736	120g	8718309832568	
1737	500g	8718309832575	
1738	7kg	8718309832582	Blue bag =  in box

1.2 Scientific product information

Single ingredient			
Main use	Gelling agent		
Chemical name	Agar, Gracilaria extract		
Production method	Agar is obtained from red seaweeds of the Gracilaria species, collected from the coast of Vietnam. Agar is extracted using hot, dilute alkali. The solution is filtered and cooled to form a gel, which is pressed and dried. The dried agar is then milled and packaged.		

1.3 Legislative product information

CAS number	9002-18-0	HS code (customs)	1302 31 00
EU food additive	E406		
Country of Origin	Vietnam		
Certification	Organic	Certification number	103446
	Institute	Skal NL-BIO-01	

2. PRODUCT INFORMATION

2.1 Physical and Chemical properties

	Unit	Specification	Method
Appearance		powder	
Colour		white to light cream	
Odour/taste		odorless, tasteless	
Melting point	°C	88 ± 5	
Gelling point	°C	37 ± 2	

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Gel Strength (Bloom)	g/cm ²	≥ 800	gel strength measured By Mecmesin electronic Texture Analyzer, solution 1,5% boiled in distilled water , plunger 1cm2 , gel kept 24 hours at 20°C
Gel Strength (Bloom)	g/cm ²	≥ 600	gel strength measured By nikkan kobe test,solution 1,5% boiled in distilled water
Ashes	%	< 3,5	
Moisture	%	< 15	
Solubility	%	≥ 80	80 °C
pH		6,0 -8,0	10% in suspension
Particle size	%	< 2	over 60 mesh sieve

2.2 Microbiological data

Total plate count	CFU / g	<5000	
Moulds & Yeasts	CFU / g	<300	
E Coli	/ 5g	Absent	
Salmonella	/ 5g	Absent	

2.3 Chemical analyses

Arsenic (As)	mg/kg	<3	
Lead (Pb)	mg/kg	<5	
Mercury (Hg)	mg/kg	<1	
Cadmium (Cd)	mg/kg	<1	

2.4 Nutritional Information

2.4.1 Nutritional Values

Energy	kJ/100g	698	
Energy	kcal/100g	174	
Protein	g/100g	0,4	
Carbohydrate:	g/100g	<0,1	
Of which Sugars	g/100g	<0,1	
Polyols	g/100g		
Starches	g/100g		
Others	g/100g		
Fat:	g/100g	<0,1	

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Of which Saturated	g/100g	<0,1	
Mono-unsaturated	g/100g		
Poly-unsaturated	g/100g		
Transfatty acids	g/100g		
Cholesterol	mg/100g		
Water	g/100g	15	
Organic acid	g/100g		
Dietary Fiber	g/100g	86,4	

2.4.2 Minerals

Sodium (Na)	mg/kg	1775	
Potassium (K)	mg/100g	20,0	

3. FOOD INTOLERANCE

3.1 Allergens

Yes = ✓ / No = ✗

Contains

Eggs and products thereof	✗
Cereals containing gluten and products thereof	✗
Lupin and products thereof	✗
Milk and products thereof (including Lactose)	✗
Sesame seeds and products thereof	✗
Nuts and products thereof (almonds, hazelnuts, walnuts, cashews, pecan nuts, Brazil nuts, pistachios, macadamia nuts)	✗
Sulphur dioxide and sulphites (>10mg/kg or >10mg/l)	✗
Celery and products thereof	✗
Peanuts and products thereof	✗
Mustard and products thereof	✗
Fish and products thereof	✗
Molluscs and products thereof	✗
Soy and products thereof	✗
Crustacea and products thereof	✗

3.2 Suitability for other diets:

Coeliacs	✓	Lactose intolerant	✓
Halal	✓	Vegans	✓

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Kosher	✓	Vegetarian	✓	
3.3 GMO Declaration:				
Agar-agar does not contain genetically modified organisms and is not produced using raw materials of a genetically modified origin. At no stage during production does the product comes into contact with genetically modified organisms.				
4. STORAGE CONDITIONS				
Storage conditions	In closed original packaging. Must be kept cool and dry in a well-ventilated place.			
Shelf life	3 years after production, under the above mentioned conditions.			
5. FOOD SAFETY				
5.1 Hygiene:				
This product is produced in a facility wit an on HACCP based food safety system.				
5.2 Identifications of dangers:				
Classification of the substance (Regulation (EC) No 1272/2008)		Not classified. (non-hazardous)		
6. EXTENDED PRODUCT INFORMATION				
6.1 Usage				
<p>Agar-agar powder from Natuurlijk Natuurlijk is made from red seaweed. This vegetable gelatin is used as a thickener, gelling and binding ingredient. It has a gelling strenght of 800 Bloom. The Bloom value is an important criterion for the quality of gelatin. It is generally between 30 and 300 for animal gelatin. It indicates the jelly strength or firmness of edible gelatin. Agar gels are completely reversible and may be melted and reset without any loss of gel strength. The gels have a characteristic firm brittle texture. This gel structure is not affected by salts or proteins. The difference between melting and setting points, is much greater with agar than with other gelling agents. Agar gels are used in the baking industry for their durability at high temperatures.</p> <p>Agar applications are fundamentally based on its enormous gelling power, and total gel reversibility. Agar is unique among polysaccharides in that gelation occurs at a temperature that is far below the gel’s melting temperature. Many uses of agar depend upon its high hysteresis. Moreover, as a gelling agent, agar is very useful in preparing strong water-gel systems for molds, or for creating the molds themselves.</p> <p>The brittle, crumbly-type texture of agar gels can be converted to an elastic and tender one by addition of Locust bean gum. Which makes a gel that can even be stronger than agar alone. The texture of agar-based products such as meringues, pie fillings, and marshmallows can be modified by the addition of gum Arabic. Gum Arabic softens the texture of agar gels and produces a tender consistency.</p> <p>It is important to note that dissolution of agar in boiling acid solutions (like fruit juice) causes significant degradation. Gel stability is best achieved at pHs slightly over 7,0. The addition of 10mg baking soda to slightly acidic agar improves gel strength.</p> <p>Agar solutions are hazy. When agar gels are frozen (at around 0°C), they collapse upon thawing and do not recover their gel phase. Nevertheless, the gel can be remelted an regelled, producing a new gel with nearly identical properties to the original one.</p>				

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Dosage:

Soft gel: 0,25%
Panna cotta: 0,3-0,7%
Jam: 0,4-0,8%
Candy: 1%
Vegan cheese: 1%
Aspic: 0,8-1,2%

heat 100°C 1 minute. Poure and cool.

- Agar is defined as a strongly gelling hydrocolloid from marine algae.
- Agar is unique for commercial purpose because it forms firm gels at concentrations as low as 1%.
- Once the agar solution starts to boil, it should be boiled (without foaming) for exactly 20 seconds.
- If foaming occurs, disperse it by swirling and stirring for a few minutes.
- A good level of agar for use in icings will range from 0,2 to 0,5%
- At concentrations of 0,1 to 1,0%, agar is a useful antistaling agent in breads and cakes.
- Tannic acid (found, e.g., in squash, apple, and prune) may inhibit agar gelation. This can be avoided by adding small quantities of glycerol.

6.2 Dictionary

NL	The Netherlands	Agar agar (Agar)
GB	Great Britain (UK)	Agar agar (Gracilaria extract, Agar, Kanten)
DE	Germany	Agar-Agar (Agar)
FR	France	Agar-agar (Agar)
ES	Spain	Agar-agar (Agar)
PT	Portugal	Agar-ágar
IT	Italy	Agar-agar (Agar)
DK	Denmark	Agar-agar (Agar)
NO	Norway	Agar
SE	Sweden	Agar
FI	Finland	Agar
IS	Iceland	Agar
CZ	Czech Republic	Agar
SK	Slovak Republic	Agar
HU	Hungary	Agaragar
HR	Croatia (Hrvatska)	Agar
GR	Greece	Άγαρ
SI	Slovenia	Agar
PL	Poland	Agar-agar (Agar)
RO	Romania	Agar-agar

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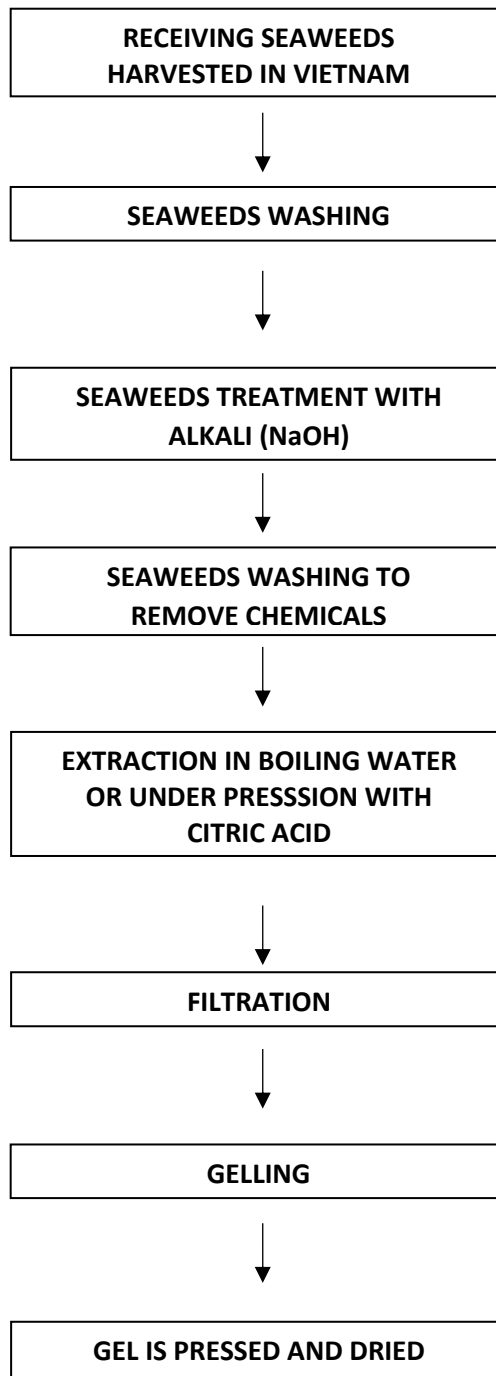
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		(Agar)
BG	Bulgaria	Arap
RU	Russian Federation	Arap-arap (Arap)
TR	Turkey	Agar

6.3 Production flowchart

Agar manufacturing flowchart



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AGAR MILLING AND BLENDING

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AGAR PACKAGING

7. DISCLAIMER

Although we take great care in setting up this product specification, we cannot accept any liability for the completeness and fully accurateness of the information provided. The content of this Product Specification is completed to the best of our knowledge.

This document does not dismiss the user of his legal obligations with respect to food safety.

This product specification replaces any previously issued specifications.