



PRODUCT LIST 2024



1. Procurement of
harvest from farmers



2. Hand cracking



3. Laboratory testing



4. Two-stage sorting on TOMRA™
Genius™ and Helius™ equipment
guarantees full compliance with
specifications and the absence of
accidental/foreign inclusions



5. Gentle drying with active
blowing at temperatures
not exceeding 60C



6. Quality control



7. Vacuum packaging in a
gas-modified environment
in a barrier film bags



8. Deliveries with a service
level (SLA) of 97.9%



IN-SHELL WALNUTS

Technical Sheet



PRODUCT DESCRIPTIONS

- **Product:** Walnut
- **Commercial Name:** In-Shell Walnut Jumbo Large; (30 - 32); (32 - 34); (34 - 36); (36 +)
- **Net weight:** 10kg
- **Category:** Extra
- **Country of origin:** Ukraine.
- **Process description:** Harvest, clean, dry, sort and packed.
- **Ingredients:** 100% walnuts.

Fresh fruit (of dry nature) harvested from organic orchards of *Juglans regia*. Once it is ripe, the pericarp (hull) has been removed, becoming covered with a firm and rough endocarp (shell); it is divided into two halves which hold the edible kernel of characteristic flavor.

SPECIFICATIONS

- **Varieties:** Chandler or Serr.
- **Sorting type:** Manual-mechanical.
- **Color:** Extra Light; Light; Amber.

PHYSICAL PARAMETER

In-Shell walnuts are selected by their equatorial diameter in mm, as shown in the following table. Also, shows the features that have category extra of in-shell walnut.

Commercial Name		
In-Shell Walnuts:	Size (mm)	
-Jumbo Large	up to 12% < 30	at least 70% > 32
-(30 - 32)	≥30	<32
-(32 - 34)	≥32	<34
-(34 - 36)	≥34	<36
-(36 +)	≥36	
Color		
- Extra Light and Light	≥50% (w/w)	
- Amber	≤20% (w/w)	
Defect		
- External defects	10% (w/w), as top.	
- Internal defects	10% (w/w), as top.	

Walnuts have uniform size, according to the size range. It is accepted a maximum of 10% of in-shell walnuts deviating from the minimum size stated on the labeling, including 4% of immediate lower size mentioned above.

CLEANNES

All In-Shell walnuts go through a cleaning process which, virtually, eliminates all foreign materials (related or not with the production process), soil, dirt, etc. Also, the product is free of alive infestation.

CHEMICAL PARAMETERS

- **Moisture content:** 8% máx.
- **Preservatives:** N/A
- **Aflatoxines (B1; B2; G1; G2):** ≤4 ppb (µg/kg)
- **Heavy metals:** According to EU legislation

MICROBIOLOGICAL PARAMETERS

- **Total coliforms:** < 10 cfu/g
- **E. coli :** < 10 cfu/g
- **Salmonella spp.:** Absent
- **Listeria monocytogenes:** Absent

NUTRITIONAL INFORMATION

Nutrients	Values/100 g
Total calories (Kcal)	561.8
Protein (g)	7.2
Total fat (g)	55.97
Saturated fat (g)	4.5
Monounsaturated fat (g)	8.63
Polyunsaturated fat (g)	42.84
Carbohydrate (g)	29.25
Sodium (mg)	< 3

Source: Geonuts®



IN-SHELL WALNUTS

Technical Sheet



PACKAGING PROPERTIES

- **Direct contact packaging:** Polypropylene bags, 48g to the 10kg bags.

Each packaging unit is a new and clean bag which contain 10kg of net weight, It is allowed 1,5 % (w/w) of declared net weight as negative deviation.

LABELING

- Producer
- Net Weight
- Production date
- Specie
- Variety
- Orchard Management
- Packaging
- Size
- Orchard

The label used have, at least, the information above. However, it is possible to add other label according to buyer convenience, but not replace the original labeling. The content of these label must be decided by the buyer.

GENERAL INFORMATION

- **Containers shipment:** 20 feet (10.000 kg approx.) and 40 feet (20.000 kg approx.)
- **Crop period:** March – April
- **Processing period:** Mayo - November

STORAGE RECOMMENDATIONS

- **Temp:** 10 – 15 °C
- **R.H.:** < 70%

This product must be stored in a clean, fresh and dry area, free from strong odors and contaminating products. Product shelf life in their original packaging and recommended storage: two years.

PRODUCT IS

- GMO free
- Suitable for Vegetarians
- Suitable for Vegans

ALLERGEN INFORMATION

Product is 100% walnut, then, nuts allergen is present. Production line only process walnuts, there is not risk of cross contamination.

CERTIFICATIONS

- GLOBALG.A.P. (EUREPGAP), orchard management
- HACCP, walnut packaging and cracking process plant.
- KOSHER, London Beth Din Kashrut Division (KLBD), walnuts products manufactured at the agroindustrial plant.





ORGANIC WALNUTS HALVES & PIECES

DETAIL

Technical Sheet



PRODUCT DESCRIPTIONS

- **Product:** Organic Walnut
- **Commercial Name:** Detail Walnuts.
- **Country of origin:** Ukraine.
- **Process description:** Harvest, clean, dry, machine crack-ked, mechanic manual sorting and packed.
- **Ingredients:** 100% walnuts.
- **Intended use:** Ready to eat

Dried fruit varieties grown from *Juglans regia*, whose outer shell and septum has been removed.

Halves: Half kernel. Including the ones that have up to 12.5% (1/8) of the kernel missing, as long as the kernel keeps its characteristic form.

Large Pieces: Kernel piece held by a sieve of 13mm and that is smaller than a half of a kernel.

Medium Pieces: Kernel pieces which shall pass through a 13 mm diameter sieve and cannot pass through a 9 mm diameter sieve.

SPECIFICATIONS

- **Varieties:** Chandler or Serr.
- **Cracking type:** Mechanical.
- **Sorting type:** Manual-mechanical.
- **Texture:** Firm, crispy.
- **Flavor and aroma:** Good typically nut flavor, free from rancid or foreign flavors.
- **Color:** Extra Light; Extra Light-Light; Light; Light-Amber; Amber.

PHYSICAL PARAMETER

Halves	≥90% (w/w)	≥80% (w/w)	≥60% (w/w)
Pieces ⁽¹⁾	<10% (w/w)	<20% (w/w)	<40% (w/w)
Lower maximum color	12% (w/w)		
Kernel defects	The present of kernel defects are not accepted.		
Cleanness	Any type of impurities, related or not with the product, are not accepted (Shell fragments, stalks, stones, soil particles or alive infestations e.g.)		

(¹) Large and Medium pieces

CHEMICAL PARAMETERS

- **Moisture content:** 5% máx.
- **Preservatives:** N/A
- **Aflatoxines (B1; B2; G1; G2):** ≤4 ppb (µg/kg)
- **Heavy metals:** According to EU legislation

MICROBIOLOGICAL PARAMETERS

- **Total coliforms:** < 10 cfu/g
- **E. coli :** < 10 cfu/g
- **Salmonella spp.:** Absent
- **Listeria monocytogenes:** Absent

NUTRITIONAL INFORMATION

Nutrients	Values/100 g
Total calories (Kcal)	729,8
Protein (g)	13,18
Total fat (g)	65,20
Saturated fat (g)	8,9
Monounsaturated fat (g)	18,2
Polyunsaturated fat (g)	72,9
Carbohydrate (g)	13,35
Sodium (mg)	1,5

Source: Chilenut.cl

PACKAGING PROPERTIES

- **Direct contact packaging:** BOPA-PE Doypack, measures 13x17 (cm) 6 g weight.
- **Indirect contact material:** Corrugate carton box, measures 32x20x47 (cm), 645g weight.

Each packaging unit is a clean, new, printed corrugate carton box, which contain 55 bags sealed, with 100g each (5,5 kg net weight per box), in modified atmosphere of 80% N₂ and 20% CO₂.



Color determination



	EXTRA LIGHT	LIGHT	LIGHT AMBER	AMBER
LIGHTEST				
	PANTONE 721C	PANTONE 727C	PANTONE 4055C	PANTONE 498C
	PANTONE 722C	PANTONE 7566C	PANTONE 7601C	PANTONE 4975C
	PANTONE 1605C	PANTONE 7581C	PANTONE 7596C	PANTONE BLACK 5C
DARKEST				

Fraction determination

Halves (1/2) kernel diametr ≥ 18 mm	Quarters(1/4) kernel diametr 10-18 mm	Large pieces (1/8) diametr 6-10 mm	Small pieces kernel diametr 4-6 mm	Granules diametr <4mm
 	 			

Method of Sampling

Taking samples hold by method of random sampling from 25 packages of total consignment (if lot quantity from 1000 to 5000 packages), when stricter control needed - up to 40 packages. Minimum 250 grams of sample to be taken from the top, middle and bottom of each separated package unit. Total volume of sample to be not less than 5 kg. Taken sample must be accurately mixed, spread in an even layer and quartered getting 1000 grams of sample for final tests.



ORGANIC WALNUTS HALVES & PIECES

DETAIL

Technical Sheet



SECONDARY PACKAGING LABELING

The label used only have an internal company code mark (barcode) which will ensures traceability from the raw material to final product, if required or audited. However, it is possible attach other label according to buyer convenience, but not replace the original labeling. The content of these labels must be decided by the buyer.

PRIMARY PACKAGING LABELING

The information at the doypack are related with nutritional information and traceability information. However it is possible attach other label or print according to buyer convenience, but not replace the original labeling. The content of these labels or prints must be decided by the buyer.

GENERAL INFORMATION

- **Containers shipment:** 20 feet (5.500kg approx.) and 40 feet (11.000kg approx.)
- **Crop period:** March – May
- **Processing period:** April - November

STORAGE RECOMMENDATIONS

- **Temp:** 10 – 15 °C
- **R.H.:** < 70%

This product must be stored in a clean, fresh and dry area, free from strong odors and contaminating products. Product shelf life in their original packaging and recommended storage: one year.

PRODUCT IS

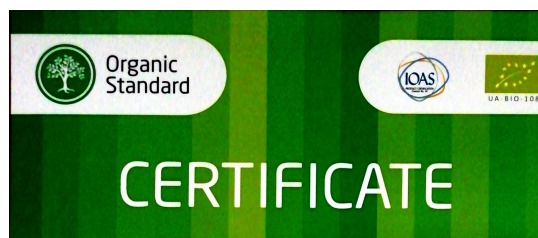
- Organic
- GMO free
- Suitable for Vegetarians
- Suitable for Vegans

ALLERGEN INFORMATION

Product is 100% walnut, then, nuts allergen is present. Production line only process walnuts, there is not risk of cross contamination.

CERTIFICATIONS

- IMOSwiss AG, Europe. Certification of organic agricultural production, processing, marketing and export of organic products.
- NOP, US. Certification of organic crop production, handling (processing and marketing) of organic products.
- GLOBALG.A.P. (EUREPGAP), Good agricultural practices orchard management.
- HACCP, walnut packaging and cracking process plant.



№ 20-1382-02-01

UA-BIO-108

OPERATOR: **ORGANIC OILS, LLC**
23, AKADEMKA SAKHAROVA STR., IVANO-FRANKIVSK CITY, 76018, UKRAINE
ОПЕРАТОР: **ТОВ «ОРГАНІК ОІЛЗ»**
ВУЛ. АКАДЕМІКА САХАРОВА, 23, М. ІВАНО-ФРАНКІВСЬК, 76018, УКРАЇНА
MANDATOR: **ORGANIC OILS, LLC**
23, AKADEMKA SAKHAROVA STR., IVANO-FRANKIVSK CITY, 76018, UKRAINE
ЗАМОВНИК: **ТОВ «ОРГАНІК ОІЛЗ»**
ВУЛ. АКАДЕМІКА САХАРОВА, 23, М. ІВАНО-ФРАНКІВСЬК, 76018, УКРАЇНА

According to: **INTERNATIONAL ACCREDITED CERTIFICATION BODIES EQUIVALENT EUROPEAN UNION ORGANIC PRODUCTION & PROCESSING STANDARD FOR THIRD COUNTRIES**
Відповідно до: **СТАНДАРТУ МІЖНАРОДНИХ АКРЕДИТОВАНИХ ОРГАНІВ СЕРТИФІКАЦІЇ З ОРГАНІЧНОГО ВИРОБНИЦТВА І ПЕРЕРОБКИ, ЯКИЙ ЕКВІВАЛЕНТНИЙ РЕГЛАМЕНТАМ ЄВРОПЕЙСЬКОГО СОЮЗУ**

With this Certificate Organic standard Ltd confirms that the declared operator certified according to the above mentioned Standard which is deemed to be equivalent to the EU Regulations No 853/2008 and 854/2007.
Цим Сертифікатом ТОВ «Органік Оілз» підтверджує, що зазначений Оператор сертифікований згідно вищезазначеного Стандарту, який був визнаний еквівалентним до Регламентів ЄС № 854/2007 та № 853/2008.

EE Code	Date of annual inspection	Product Category
D	14.07.2020	Processed agricultural products for use as food Кермелі продуктів сільськогосподарського виробництва

For information purposes the operator is not certified. The operator is not certified according to the standard of organic products (Transaction certificate, Export certificate).
Інформаційно: оператор не сертифікований. Оператор не сертифікований за стандартом органічних продуктів (Транзакційний сертифікат, Експортний сертифікат).

Date and place of issuing of Certificate:
21.09.2020
Kyiv, Ukraine
General Manager:
Директор з питань сертифікації



Valid
Термін дії:
до 31.12.2021
до 31.12.2021
Sergiy Goloshevsky
Сергій Голосевський

With this Documentary evidence all relevant parties are NOT valid. The Documentary evidence is not valid for the purpose of organic products (Transaction certificate, Export certificate).
Інформаційно: документи не є дійсними. Документи не є дійсними для цілей органічних продуктів (Транзакційний сертифікат, Експортний сертифікат).
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ORGANIC WALNUTS OIL

Technical Sheet

PRODUCT DESCRIPTIONS

- **Product:** WALNUT OIL, COLD PRESSED ORGANIC
- **INCI Name:** Juglans Regia Seed Oil.
- **CAS-No:** 8024-09-7 / 84012-43-1
- **Country of origin:** Ukraine.
- **Properties:** A yellow oil with typical odour and taste. It is insoluble in water.
- **Ingredients:** 100% WALNUT OIL*of organic cultivation
- **Intended use:** Ready to eat

Walnut oil - is a fragrant, tasty and refined product. By its nutritional value, it overcomes many of the oil, including olive oil. Walnut oil includes a huge amount of vitamins, minerals and other trace elements necessary for human health. All this allows you to call the walnut oil - "elixir of life".

Walnut Oil is the fixed oil of the fruits of the walnut tree (Juglans regia). The walnuts contain about 60 % oil. The oil is obtained by mechanical cold expression.

SPECIFICATIONS

- **Varieties:** Chandler or Serr.
- **Manufacturing Method:** Cold Pressed.
- **Sorting type:** Manual-mechanical.
- **Texture:** Firm, crispy.
- **Flavor and aroma:** Good typically nut flavor, free from rancid or foreign flavors.
- **Color:** A yellow oil with typical odour and taste.
- **Vegan,** Non-GMO, No Trans Fat, Source of Polyunsaturated & Monounsaturated Fats, High Smoke Point (220°C/425°F)

QUALITIES & USAGE

Art.-Nr.	Quality	Cosmetics	Food	Pharma
340030	Walnut oil refined	Yes	Yes	Yes
340020	Walnut oil cold pressed	Yes	Yes	
340025	Walnut oil pressed toasted	Yes	Yes	
340120	Organic walnut oil cold pressed	Yes	Yes	
340125	Organic walnut oil pressed toasted	Yes	Yes	



CHEMICAL PARAMETERS

- **Preservatives:** N/A
- **Walnuts are rich in** omega-3 fatty acids, Linoleic acid (omega-6, 9 & 3), vitamins B-1, B-2, B-3, vitamin-E, niacin, and also have a significant source of vitamin-C.

MICROBIOLOGICAL PARAMETERS

- **Total coliforms:** < 10 cfu/g
- **E. coli :** < 10 cfu/g
- **Salmonella spp.:** Absent
- **Listeria monocytogenes:** Absent

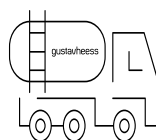
NUTRITIONAL INFORMATION

Nutrients	Values/100 g
Energie: / Energy value:	3411 / 830 kJ / kcal
Fett / fat	100
saturated fatty acids %	9,4
monounsat. fatty acids %	17,7
polyunsat. fatty acids %	72,6
carbohydrates	0
protein	0
salt	0

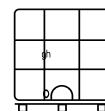
*NRV: Nutritional reference values

Contains 12 g Omega 3, 59 g Omega 6 and 19 g Omega 9 per 100 g

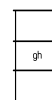
PACKAGING PROPERTIES



25,000 kg Tank truck



900 kg IBC



190 kg Drum



27 kg Canister

General durability:

canister 12 months, drum 18 months, IBC 6 months



5 litres



1 litre



500ml



250ml

ORGANIC WALNUTS OIL

Technical Sheet



SECONDARY PACKAGING LABELING

The label used only have an internal company code mark (barcode) which will ensures traceability from the raw material to final product, if required or audited. However, it is possible attach other label according to buyer convenience, but not replace the original labeling. The content of these labels must be decided by the buyer.

PRIMARY PACKAGING LABELING

The information at the doypack are related with nutritional information and traceability information. However it is possible attach other label or print according to buyer convenience, but not replace the original labeling. The content of these labels or prints must be decided by the buyer.

GENERAL INFORMATION

- **Containers shipment:** 20 feet (5.500kg approx.) and 40 feet (11.000kg approx.)
- **Crop period:** March – May
- **Processing period:** April - November

STORAGE RECOMMENDATIONS

- **Temp:** 10 – 15 °C
- **R.H.:** < 70%

This product must be stored in a clean, fresh and dry area, free from strong odors and contaminating products. Product shelf life in their original packaging. Storage conditions: cool place at temperatures between +8 °C - +20 °C with a R.H no more than 85%. It is recommended to consume within 3 months after opening. Precipitation is allowed. Shake well before use. Oil with a slight cloudiness or "mesh" is not a sign of defect.

PRODUCT IS

- Organic
- GMO free
- Suitable for Vegetarians
- Suitable for Vegans

ALLERGEN INFORMATION

Product is 100% walnut, then, nuts allergen is present.
Production line only process walnuts, there is not risk of cross contamination

CERTIFICATIONS

- IMOSwiss AG, Europe. Certification of organic agricultural production, processing, marketing and export of organic products.
- NOP, US. Certification of organic crop production, handling (processing and marketing) of organic products.
- GLOBALG.A.P. (EUREPGAP), Good agricultural practices orchard management.
- HACCP, walnut packaging and cracking process plant.
- Classification (67/548/EEC) This product is not dangerous according to REACH Regulation 1907/2000
- Classification (EU1272/2008) This product does not belong to any list of substances supposedly hazardous to human or animal health according to EU Regulation 1272/2008 & any further amendments, nor to those having recognized exposition limits. Care should be taken when handling hot oil as it may constitute a burn hazard. Spills can constitute a slippage hazard.
- Label Elements Label in accordance with Regulation (EC) No 1272/2008.

[illegible]



WALNUT SHELL POWDER

Technical Sheet



PRODUCT DESCRIPTIONS

- **Product:** WALNUT SHELL POWDER
- **Commercial Name:** Ground Walnut Shell (Walnut Shell Grit & Flour), Ground Walnut Shell (All grades - Coarse, Medium and Fine), Shelblast, Glufil (WF-7, WF-5 and WF-2), Glufil AW.
- **CAS No** 84012-43-1 **GSA Specification** AA-1722 Type 2 **Military Specification** MIL-G-5634 Type 3
- **Appearance Grit:** Light brown granules
- **Flour:** Light brown powder
- **Country of origin:** Ukraine.
- **Process description:** Crushing, clean, dry, sort and packed.
- **Physical State** Solid **Odor** No odor **Combustible Dust**
- **Ingredients:** 100% walnuts.

Shredded Walnut Shells are a versatile material that have been carefully crushed, ground and classified into specific standard mesh sizes for various purposes. These range from abrasives to fine powders. Due to its environmental friendliness, low losses, wide range of applications and a number of advantages, walnut abrasive shells are widely used in various industries.

SPECIFICATIONS

Sandblasting	5# , 6# ,8#,10#,12#,14#,16#,20#,24#, 30#, 36#, 46#, 60#, 80#, 100#, 120#, 200#
Polishing	4-6#, 6-10#, 8-12#, 12-20#, 14-30#, 18-40#, 36-60#, 40-100#, 60-200#.
Skin care	18-40#, 36-60#,40-100#, 60-200#, 100#,200#, 325#, 400#
Other particle sizes:	6-10 Mesh (coarse), 8-12 Mesh (coarse), 12-20 Mesh (medium), 18 -40 Mesh (fine)

PHYSICAL PARAMETER

Commercial Name	
Ground Walnut Shell	
Grain Shape	Sub-angular to Angular
Color	Light Brown
Specific Gravity	1.2 - 1.4
Hardness	Mohs 3-4
Bulk density	depending on grain size
Auto-ignition Temperature	243 °C / 470 °F
Explosive Properties	Dust can form an explosive mixture with air
Reactivity	Not reactive under normal conditions.

Walnut Shell Powder as a fillers and additives offer excellent solutions for applications in a wide variety of industries: adhesives, construction, resin, plywood, laminated veneer lumber, furniture, rubber, paint, artificial turf, and cosmetic industries.

CLEANNESS

All walnuts go through a cleaning process which, virtually, eliminates all foreign materials (related or not with the production process), soil, dirt, etc. Also, the pro-duct is free of alive infestation. 100% of the mixture consists of ingredient(s) of unknown toxicity. Direct contact with eyes may cause temporary irritation.

CHEMICAL PARAMETERS

- **Free moisture** (80°C for 15 HRS) 6%
- **Oil Content** 0,25%
- **Dilatability** 0,5%
- **Nitrogen** 0,4%
- **Heavy metals:** According to EU legislation
This is a 100% natural product and contains no silica.

MICROBIOLOGICAL PARAMETERS

- **Total coliforms:** < 10 cfu/g
- **E. coli :** < 10 cfu/g
- **Salmonella spp.:** Absent
- **Listeria monocytogenes:** Absent

AVAILABLE GRAIN SIZES (AVERAGE GRAIN SIZE)



Other sizes available on request

WALNUT SHELL POWDER

Technical Sheet



PACKAGING PROPERTIES

- **Direct contact packaging:**

Polypropylene bags, 48g to the 10kg bags. Bulk Bag quantities available 50-lbs.paper bags, palletized and shrink wrapped. Each packaging unit is a new and clean bag, It is allowed 1,5 % (w/w) of declared net weight as negative deviation.

LABELING

- Producer
- Net Weight
- Production date
- Specie
- Variety
- Orchard Management
- Packaging
- Size
- Orchard

The label used have, at least, the information above. However, it is possible to add other label according to buyer convenience, but not replace the original labeling. The content of these label must be decided by the buyer.

GENERAL INFORMATION

- **Containers shipment:** 20 feet (10.000 kg approx.) and 40 feet (20.000 kg approx.)
- **Crop period:** March – April
- **Processing period:** May - November

STORAGE RECOMMENDATIONS

- **Temp:** 10 – 15 °C
- **R.H.:** < 70%

This product must be stored in a clean, fresh and dry area, free from strong odors and contaminating products. Product shelf life in their original packaging and recommended storage: two years.

ALLERGEN INFORMATION

Product is 100% walnut, then, nuts allergen is present. Production line only process walnuts, there is not risk of cross contamination. Walnut Shell, a tree nut product, may contain walnut proteins that have been known to cause allergic reaction. Individuals with known or suspected allergies to walnuts or tree nuts should be made aware of product contents prior to use, exposure, contact, and/or inhalation.

CERTIFICATIONS

- GLOBALG.A.P. (EUREPGAP), orchard management
- HACCP, walnut packaging and cracking process plant.
- KOSHER, London Beth Din Kashrut Division (KLBD), walnuts products manufactured at the agroindustrial plant.



**Organic
Standard**



IAQS
IA QUALITY ASSURANCE SYSTEM



UA BIO 128

CERTIFICATE

No 20-1382-02-01

OPERATOR: ORGANICOLS LLC
23, Akademika Sadakova str., Irano-Pavlovsky city, 76018, Ukraine

ОПЕРАТОР: ТОВ «Органик Олз»
вул. Академіка Садового, 23, м. Ірпін-Франківськ, 76018, Україна

MANDATORY ORGANICOLS LLC
23, Akademika Sadakova str., Irano-Pavlovsky city, 76018, Ukraine

Зобов'язаний: ТОВ «Органик Олз»
вул. Академіка Садового, 23, м. Ірпін-Франківськ, 76018, Україна

UA-BIO-108

According to: INTERNATIONAL ACCREDITED CERTIFICATION BODIES EQUIVALENT EUROPEAN UNION ORGANIC PRODUCTION & PROCESSING STANDARD FOR THIRD COUNTRIES
СТАНДАРТ МІЖНАРОДНОГО АКРЕДИТУВАННЯ ОРГАНІЧНИХ СЕРТИФІКАЦІЙ З ОРГАНІЧНОГО ВИРОБНИЦТВА І ПЕРЕРобКИ, ЯКІЙ ЕКВІВАЛЕНТНІ ПЕРЕРобКАМ ЄВРОПЕЙСЬКОГО СОЮЗУ

With this Certificate, I hereby certify that the above mentioned Standard which is deemed to be equal after 10-113 Regulations to ENR:2008 and ENR:2007

З цим Сертифікатом, я підтверджую, що наведений Стандарт відповідає європейському Стандарту, який є еквівалентним міжнародному Стандарту ENR:2008 та ENR:2007

EU Code	Date of latest inspection	Product Category
AD	14.07.2020	Виробництво органічних продуктів

EU Code	Date of latest inspection	Product Category
D	14.07.2020	Виробництво органічних продуктів

Prepared according to products for use as seed
Виробництво органічних продуктів для використання

For the purposes of the standard for the Certificate, I hereby certify that the above mentioned Standard which is deemed to be equal after 10-113 Regulations to ENR:2008 and ENR:2007

З метою відповідності стандарту для Сертифікату, я підтверджую, що наведений Стандарт відповідає європейському Стандарту, який є еквівалентним міжнародному Стандарту ENR:2008 та ENR:2007

Date and place of issuing of Certificate
Дата та місце видачі Сертифікату

17.08.2020
10/7 m. Irpin

Issued Manager
Відомий керівник організації



100%
Тисячі кг

10/11/2020
10/11/2020

Single Certification
Єдиний Сертифікат

With this Certificate, I hereby certify that the above mentioned Standard which is deemed to be equal after 10-113 Regulations to ENR:2008 and ENR:2007

З цим Сертифікатом, я підтверджую, що наведений Стандарт відповідає європейському Стандарту, який є еквівалентним міжнародному Стандарту ENR:2008 та ENR:2007

PACKAGING

Supercac's (2,000 lbs.) • 200 lb. Drums • 50 lb. Drums

1. INC. • 269 PETERS FARM ROAD • MILFORD, CT 06460



WALNUT SEPTUM POWDER

Technical Sheet



PRODUCT DESCRIPTIONS

- **Product:** WALNUT SEPTUM POWDER
- **Commercial Name:** Walnut septum (WS), Diaphragma Juglandis fructus, Juglans regia septum, Septa of the fruit of Juglans regia, Kernel septum membranes, Walnut septum, Walnut membrane septum.
- **CAS No**
- **Form:** Powder
- **Flour:** Light brown powder
- **Country of origin:** Ukraine.
- **Process description:** Crushing, clean, dry, sort & packed.
- **Extraction Type:** Liquid-Solid Extraction
- **Ingredients:** 100% Walnut septum,

Walnut septum (WS), a by-product that has a phytochemical profile that defines the therapeutic potential. The septa of Juglans regia fruit was a rich raw material containing several compounds including lipids, low-molecularmass phenolic carboxylic acids, phenolic aldehydes, catechins, proanthocyanidins, oligomeric and polymeric phenolic substances. Phytochemical analyses have indicated that the walnut septum is a rich source of polysaccharides, phytosterols (beta-sitosterol and campesterol), and secondary metabolites like polyphenols (including gentisic acid, p-coumaric acid, ferulic acid, hyperosid, isocoumaritrin, quercitrin, quercetin, epicatechin, catechin, syringic acid, gallic acid, protocatechuic acid, and vanillic acid), which are introduced to be responsible for a range of biopharmaceutical activities of the walnut septum.

SPECIFICATIONS

The WS is made up of :

lignin	52.3%
cellulose	25.5%
hemicellulose	22.2%

PROXIMATE AND ULTIMATE /ELEMENTAL COMPOSITION OF THE WS (%)

Proximate Analysis	Moisture %	- 6.23
	Ash %	- 2.99
	Volatile matter %	- 70.71
	Fixed carbon %	- 21.06

Elemental Composition	Carbon	- 47.57
	Nitrogen	- 0.14
	Oxygen	- 46.25
	Hydrogen	- 6.02
	Calcium	- - -
	Oxygen: Carbon	- 0.73
	Hydrogen: Carbon	- 1.51



APPLICATIONS OF WS ACROSS VARIOUS FIELDS

Many value-added products extracted from WSs have found uses in the food industry and other areas. Extraction for lignin from WSs. Lignin was used extensively in lignin-based adhesive and WS-derived activated carbon. Creating light, eco-efficient agriculture waste-doped burned bricks with increased thermal insulating properties. Use of WS as a substitute for sand in cement mortars. Preparation of palladium and WS-based nanocomposite. Replacement of fine aggregate in concrete. Inoculation of S. aureus in the WS. Use of WS waste to increase the strength and deformation of Kaolin. WS extract in cosmeceutical. Use of WS component in the production of xylooligosaccharides. Use of WS extract in the preparation of gelatin-based films. Preparation of starch-based films reinforced by WS powder. Use of WSA-based catalyst for the generation of biodiesel from moringa oleifera oil. Use of WS hydrochar as a natural sanitizer. Use of WS as a substratum for microalgae biofilm preparation. Use of WSC/MP as a phase change material. Synthesis of rigid PUR foam by using WS-based bio polyol. Preparation of activated carbon from the WS by CO2 physical activation. Evaluation of WS as a support media in moving bed biofilms reactor. Effect of WSBC on seed germination and seedling. Preparation of WS-based copper catalyst. Use of WS as a lignocellulosic sorbent in dyes and sorbent. Use of WS in CuNPs for C-C coupling and catalytic reduction. Synthesis of CNCs from WS.

CHEMICAL COMPOSITION (% OF TOTAL DRY MASS), POLYSACCHARIDES COMPOSITION (% OF TOTAL DRY MASS), AND MINERAL COMPOSITION (MG/KG DRY MASS) OF WS

Extractives, total		10.6
	Dichloromethane	0.6
	Ethanol	3.1
	Water	6.9
Lignin, total		29.9
	Klason lignin	29.3
	Soluble lignin	0.6
Polysaccharides		49.7
	Rhamnose	0.6
	Arabinose	0.7
	Galactose	1.4
	Xylose	19.3
	Mannose	0.0
	Galacturonic acid	2.6
	Glucuronic acid	0.1
	Acetyl	3.3
Mineral composition	Sodium	554.5
	Potassium	5202.4
	Calcium	9080.8
	Magnesium	1283.0
	Phosphorous	691.4
	Sulphur	790.5
	Iron	3094.8
	Copper	6.2
	Zinc	18.1
	Manganese	110.9
	Boron	29.7
	Molybdenum	9.9



WALNUT SEPTUM POWDER

Technical Sheet

PACKAGING PROPERTIES

- Direct contact packaging:

Polypropylene bags, 48g to the 10kg bags. Each packaging unit is a new and clean bag. It is allowed 1,5 % (w/w) of declared net weight as negative deviation.

LABELING

- Producer
- Net Weight
- Production date
- Specie
- Variety
- Orchard Management
- Packaging
- Size
- Orchard

The label used have, at least, the information above. However, it is possible to add other label according to buyer convenience, but not replace the original labeling. The content of these label must be decided by the buyer.

GENERAL INFORMATION

- **Containers shipment:** 20 feet (10.000 kg approx.) and 40 feet (20.000 kg approx.)
- **Crop period:** March - April
- **Processing period:** May - November

STORAGE RECOMMENDATIONS

- **Temp:** 10 - 15 °C
- **R.H.:** < 70%

This product must be stored in a clean, fresh and dry area, free from strong odors and contaminating products. Product shelf life in their original packaging and recommended storage: two years.

ALLERGEN INFORMATION

Product is 100% walnut, then, nuts allergen is present. Production line only process walnuts, there is not risk of cross contamination. Individuals with known or suspected allergies to walnuts or tree nuts should be made aware of product contents prior to use, exposure, contact, and/or inhalation. Any form of walnuts should not be consumed by those who are allergic to walnuts, the so-called peanut-nut syndrome. Walnut kernels septum should be avoided if you have any skin diseases, be it simple urticaria or eczema.

CERTIFICATIONS

- GLOBALG.A.P. (EUREPGAP), orchard management
- HACCP, walnut packaging and cracking process plant.
- KOSHER, London Beth Din Kashrut Division (KLBD), walnuts products manufactured at the agroindustrial plant.





WALNUT DRY LEAVES

Technical Sheet

PRODUCT DESCRIPTIONS

- **Product:** WALNUT DRY LEAVES
- **Commercial Name:** Leaves of *Juglans regia* (walnut), *Juglandis Folium*, *Juglans regia* L.
- **CAS No:** 84012-43-1
- **ECHA EC Number:** 281-688-1
- **TU U:** 10.8-3259306996-001:2017
- **Form:** Leaves, Walnut Dried Cut Leaves, Walnut Leaf Powder
- **Flour:** Green-brown powder with a mild yet spicy odour.
- **Main Purpose:** Antioxidants, Natural Dye, Natural food supplement, Decoration. Contains A, C, K, and B Vitamins, silica, selenium, flavonoids which is a great antioxidant, plus chlorine, iron, manganese, sulfur, iodine, tannins, nucinerol, oxalic acid, zinc, magnesium, potassium, phosphorus, essential oils, and mucilaginous compounds.
- **Country of origin:** Ukraine.
- **Process description:** Crushing, clean, dry, sort & packed.
- **Ingredients:** 100% Walnut Leaves (*Juglans Regia*)

Walnut leaf is the common name for the whole leaf of the tree *Juglans regia* L. The leaf is gathered from wild or cultivated trees. Walnut leaf preparations are obtained by comminuting (reducing into tiny pieces) the dried leaves. Herbal medicines containing walnut leaf are usually available as comminuted herbal material to be boiled in water to make a 'decoction' which is applied to the skin. Walnut leaf can also be found in combination with other herbal substances in some herbal medicines. The walnut leaf can be used in different forms, for example as a tea, tincture or poultice, depending on the type of infection and the desired effect. Walnut leaves are a species-appropriate feed for horses, rodents and reptiles. They are easy for the animals to digest and offer an excellent taste.

INDICATIONS FOR USE OF WALNUT LEAVES

Inflammatory bowel diseases, diarrhea, conjunctivitis, blepharitis and other inflammatory eye diseases, stomatitis, gingivitis, as well as skin diseases (acne, eczema, frostbite).

SPECIFICATIONS

Walnut leaves contain phenolic carboxylic acids such as caffeic, gallic or salicylic acid, about 10 % tannins (ellagitannin type), between 3 and 4 %, flavonoids, juglone and hydrojuglone. The fresh leaves contain ascorbic acid (over 1300 mg%), carotene (33 mg%), essential oil (0.005-0.02%), tannins, organic acids, the alkaloid juglandin, vitamins P and B, ellagic and gallic acids, the colouring agent juglone (5-oxy-1,4-naphthoquinone), which has bactericidal and fungicidal properties, flavonoids and caffeic acid.



APPLICATIONS OF WDL ACROSS VARIOUS FIELDS

Walnut plants are used for scrofula, eczema, dermal inflammation, and excessive hand and feet perspiration. The leaves are used for sunburns, itching and to treat scalp dandruff. Leaves are also used on the body or forehead to reduce fever and also applied on swollen joints to cure rheumatic pain. The leaves of *Juglans regia* (walnut) have been used in traditional medicines for their apparent antimicrobial, anthelmintic, keratolytic, and antidiarrheal properties, and are rich in polyphenolic compounds and flavonoids. Bactericidal properties refer to the walnut leaf's ability to kill harmful bacteria, e.g. *E. coli* and *Staphylococcus aureus*. These properties are attributed to the presence of natural compounds, such as juglone and tannins, which have been shown to be effective against a large number of bacteria. Virucide properties refer to the walnut leaf's ability to inactivate viruses, e.g. influenza virus and herpes simplex virus. Antifungal properties refer to the walnut leaf's ability to inhibit the growth of fungi, such as *Candida albicans* and *Aspergillus niger*. These properties are also attributed to the presence of natural compounds, such as juglone and ellagic acid, which have been shown to be effective against a wide range of fungi. Dried Walnut leaves will colour fibres, yarns & fabrics to shades of yellow – brown when used as a natural dye. Tannins are used in dyeing with natural occurring materials in a number of ways. As a substantive dye, they do not need the use of a mordant when used on proteins (wool, hair, feathers etc) They are also used as a key component in botanical printing as well as preparing cellulose fibres for dyeing with natural materials. Dried Walnut leaves will colour fibres, yarns & fabrics to shades of yellow – brown when used as a natural dye.

NUTRITIONAL INFORMATION

Walnut dry leaves are not commonly consumed as a direct food source like walnuts themselves, so detailed nutritional information specifically for walnut leaves is somewhat limited. However, they are traditionally used in herbal medicine for their medicinal properties. Walnut leaves contain a variety of bioactive compounds such as:

1. **Polyphenols and Flavonoids:** Antioxidant properties: Walnut leaves are rich in polyphenols and flavonoids, which are known for their antioxidant activity. These compounds help to neutralize free radicals and reduce oxidative stress.
 2. **Tannins:** Astringent properties: Tannins present in walnut leaves can have anti-inflammatory and antimicrobial effects, making them useful for skin applications and digestive health in herbal remedies.
 3. **Juglone:** Antimicrobial compound: Juglone is a bioactive compound found in walnut leaves, and it has been shown to have antibacterial, antifungal, and antiviral effects. However, it is also toxic in large amounts, so caution is necessary in its use.
 4. **Essential Oils:** Walnut leaves contain small amounts of essential oils that contribute to their aromatic and medicinal properties. These oils may contain various terpenes and other volatile compounds with health benefits.
 5. **Vitamins and Minerals:** While the content of vitamins and minerals is not as significant as in the nut itself, walnut leaves may contain small amounts of vitamin C, B-complex vitamins, and trace minerals like magnesium and potassium, which contribute to their medicinal use in traditional herbal remedies.
 6. **Fiber:** The leaves, like many plant materials, contain dietary fiber, although they are not typically consumed in large enough quantities for fiber to be a major benefit.
 7. **Other Phytochemicals:** Walnut leaves are also rich in other phytochemicals like carotenoids and phenolic acids, which contribute to their overall health benefits and have been used in various traditional medicine systems.
- Uses of Walnut Leaves: Tea: Dried walnut leaves are often used to make herbal teas that can aid digestion, lower blood sugar, and reduce inflammation.
- Topical Applications: The leaves are used in skin treatments for conditions such as eczema, acne, and wounds due to their antimicrobial and astringent properties.



WALNUT DRY LEAVES

Technical Sheet

PACKAGING PROPERTIES

- Direct contact packaging:

Paper envelope PAP 22 / BS EN 26590-1 with zipper closures for nutritional purposes. Thus, the herbs are kept in the best possible way - no contact with light and moisture, with the ability to breathe through the paper.



LABELING

- Producer
- Net Weight
- Production date
- Specie
- Variety
- Orchard Management
- Packaging
- Size
- Orchard

The label used have, at least, the information above. However, it is possible to add other label according to buyer convenience, but not replace the original labeling. The content of these label must be decided by the buyer.

GENERAL INFORMATION

- Containers shipment: 20 feet (5.500kg approx.) and 40 feet (11.000kg approx.)
- Crop period: March - May
- Processing period: April - November

STORAGE RECOMMENDATIONS

- Temp: 10 - 15 °C
- R.H.: < 70%

This product must be stored in a clean, fresh and dry area, free from strong odors and contaminating products. Product shelf life in their original packaging and recommended storage: one year.

PRODUCT IS

- Organic
- GMO free
- Suitable for Vegetarians
- Suitable for Vegans



STORAGE RECOMMENDATIONS

- Temp: 10 - 15 °C
- R.H.: < 70%

This product must be stored in a clean, fresh and dry area, free from strong odors and contaminating products. Product shelf life in their original packaging indefinite.

ALLERGEN INFORMATION

Product is 100% walnut, then, nuts allergen is present. Production line only process walnuts, there is not risk of cross contamination. Individuals with known or suspected allergies to walnuts or tree nuts should be made aware of product contents prior to use, exposure, contact, and/or inhalation. Any form of walnuts should not be consumed by those who are allergic to walnuts, the so-called peanut-nut syndrome. It is important to note that although walnut leaf is generally safe to use, it may cause allergic reactions in some individuals. Preparations made from walnut leaves should not be taken by patients with thrombophlebitis, as walnut increases the blood clotting capacity. It is always advisable to consult a healthcare professional before using any herbal remedy. This is a non-hazardous product. Normal safety measures should be observed.

CERTIFICATIONS

HACCP, walnut packaging and cracking process plant. KOSHER, London Beth Din Kashrut Division (KLBD), walnuts products manufactured at the agroindustrial plant.





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