



## Product Quality Specification LQP/2022

<b>Description</b>	<b>Walnut Kernels (<i>Juglans Regia</i>)</b>  <b>Organic Light Quarters and Pieces / Mix (OLQP)</b> Balance: quarters and pieces, varying from light to light brown (unbleached) with fresh consistency without any off flavor or foreign taste like rancid.
<b>Certification</b>	CERES GmbH Germany, MD-BIO-140
<b>Product Origin</b>	Republic of Moldova – MD
<b>Physical Standards</b>	HGO 174 dd.02.03.2009, which is made in accordance with UNECE STANDARD DDP-02 concerning the marketing and commercial quality control of Walnut kernels
<b>Production Standards</b>	Council Regulation (EC) 834/2007 by 28.06.2007 on organic production and labeling of organic products and repealing Regulation (EEC) Nr. 2092/91
	Product is Vegan and it is raw natural product

### Analytical Specification

<b>Light Quarters</b>	50-70%
<b>Light Pieces 8-12mm</b>	30-50%
<b>Pieces smaller than 8mm</b>	<5%
<b>Rotten kernels</b>	<0,5%
<b>Mouldy kernels</b>	<0,2%
<b>Dead pests/Webs</b>	1 unit/25kg
<b>Insect Damage %</b>	Max 1 piece in 200gr
<b>Rancid</b>	<1%
<b>Foreign matters of vegetal origin (small pieces and membrans)</b>	<0,1%
<b>Shell fragments</b>	<0,02%
<b>Kernels darker in color</b>	< 5%

### Metal Detection Limits:

Fe – 1,2 – 1,5 mm;  
NFe – 2,2 mm;  
SS – 3,04 – 3,5mm



### Chemical standards:

Aflatoxins (Sum of B1, B2m G1 and G2)	< 4 ppb
Aflatoxin B1	<2ppb
Humidity	<5.00%
Water activity / AW	<0,68 %
Peroxide value (mA O2/kg)	<3.0
Free Fatty Acids – FFA	<1.00%
Radioactivity	<10Bq/kg
Copper	No more than 15mg/kg
Zinc	No more than 100 mg/kg
Lead	No more than 0,5 mg/kg
Cadmium	No more than 0,10 mg/kg
Mercury	No more than 0,05 mg/kg
Arsenic	No more than 0,3 mg/kg
Cesium - 137	No more than 200Bq/kg
Residues of pesticides:	<p>Pesticides residues &lt;0.01 mg / kg</p> <p>taking into account the analytical variation limit and processing factors, as long as other food law regulations do not provide stricter regulations.</p> <p>In case of detection of non-authorized substances – a cording to art. 28 of regulation (EU) 2018/848 – written evidence based on a thorough research on the cause is available, in order to confirm conformity with regulation (EU) 2018/848 along the process chain.</p>

According to BNN-orientation-values are valid with consideration of 50 percent analytical variation limit. [www.n-bnn.de](http://www.n-bnn.de), and EC 1881/2006.

### Microbiological standards

(In accordance with GD Republic of Moldova Nr.221 by 16.03.2009, harmonized with EU Commission Regulation EC 2073/2005 and 1441/2007)

Total count of aerob germs: germs:	<10 5 CFU/g
Escherichia Coli	<10 CFU/g
Enterobakteriaceae	<10 3 CFU/g
Moulds:	<10 4 CFU/g
Salmonellas in 125gr	Not detectable
Orientation values acc. DGHM:	Orientated according to guideline values of the German society for hygiene and microbiology (DGHM). <a href="http://www.dghm.org">http://www.dghm.org</a>

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### Manufacturing information

After the harvest the walnuts are dried at max. temperature of 39 °C, then they are cracked by hand or by machine and sorted by laser sorting machine and additionally twice by hand.

Before packaging the nuts are being checked by metal detectors	
Heating >39°C:	no
Composition (in descending order):	WALNUT pieces* (100,00%),
*=organic cultivation,	**= biodynamic cultivation
After the detection of metals, the walnut kernels are packed according to the provisions stipulated in the:	EU Regulation 1935/2004 and EU 10/2011
For the packaging of walnut kernels, materials are used according to the provisions stipulated in the EU Regulation on the migration of packaging:	EU 752/2017

### Product labelling and storage

Best Before	12 months Shelf life
GMO	The organic walnut kernels – processed and exported by Nova Nut SRL do not contain GMO Goods are in conformity with the Regulations EU 1829/2003 and 1830/2003
Storage conditions	Keep in a dry place at a relative humidity of 60-65%, controlled air temperature of +4 C/ +8C



Allergen present as an Ingredient in the supplied product		
<p>Allergens Enclosure:</p> <p>Allergen Info (EU) Nr.1169/2011 Not measurable very small contamination s caused by wind / air circulation should not be named.</p>	01. Gluten containing cereals (d. h. wheat, rye, barley, oats, spelt, kamut or crossbreedings) as well as their manufactured products;	not present
	02. Shellfish and crustaceans and their manufactured products;	not present
	03. Eggs and their manufactured products;	not present
	04. Fish and their manufactured products;	not present
	05. Peanut and their manufactured products;	not present
	06. Soy and their manufactured products;	not present
	07. Milk and their manufactured products (including lactose);	not present
	<b>08. Nuts, f. e. almonds (<i>Amygdalus communis L.</i>), hazelnut (<i>Corylus avellana</i>), Walnut, (<i>Juglans regia</i>), Cashew nut (<i>Anacardium occidentale</i>), pecan nut, (<i>Carya illinoensis</i> (<i>Wangenh.</i>) <i>K. Koch</i>), brazil nut (<i>Bertholletia excelsa</i>), pistachios (<i>Pistacia vera</i>), macadamia nut and Queensland nut (<i>Macadamia ternifolia</i>) and their manufactured products;</b>	<b><i>Present in the receipt</i></b>
	09. Celery and its manufactured products;	not present
	10. Mustard and its manufactured products;	not present
	11. Sesame and manufactured products;	not present
	12. Sulphur dioxide and sulphite at a concentration of more than 10mg/kg or 10mg/l indicated as SO;	not present
	13. Others;	not present
	14. Lupine and its manufactured;	not present
	15. Molluscs and their manufactured products;	not present

### Nutritional Features: (per 100g) naturally varying!

Principle	Nutrient Value	Percentage of RDA
Energy	685 Kcal/100g	32,7%
Carbohydrates:	10,60 g	6%
Sugar	6,70 g	1.2%
Salt:	0,01 g	0,001%
Protein	17,00 g	27%
Total Fat:	62,50 g	65.3%
Saturated fatty	6,40 g	5.7%
Cholesterol	0.0 mg	0%
Dietary Fiber	6,10 g	18%
<b>Vitamins</b>		
Niacin	1.125 mg	7%
Pantothenic acid	0.570 mg	11%
Folates	98 µg	24%
Pyridoxine	0.537 mg	41%
Riboflavin	0.150 mg	11.5%
Thiamin	0.341 mg	28%
Vitamin A	20 IU	0.5%
Vitamin C	1.3 mg	2%
Vitamin E	20.83 mg	1.39%

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Vitamin K	2.7 µg	2%
<b>Electrolytes</b>		
Sodium	2 mg	0%
Potassium	441 mg	9%
<b>Minerals</b>		
Calcium	98 mg	10%
Copper	1.5 mg	1.67%
Iron	2.9 mg	36%
Magnesium	158 mg	39.5%
Manganese	3.4 mg	1.48%
Phosphorus	346 mg	49%
Selenium	4.9 µg	9%
Zinc	3.09 mg	28%
<b>Phito - nutrients</b>		
Carotene- β	12 µg	--
Crypto-xanthin-β	0 µg	--
Lutein-zeaxanthin	9 µg	--

**NOTE:** In case of vacuum packaging of 5 kg pp bags, the accepted tolerance of bags which sucks air up to 7% out of the volume.

**Dr. Ion Cuhai**

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