

MINISTRY OF ECONOMIC DEVELOPMENT AND TRADE UKRAINE

**STATE ENTERPRISE "CHERKAS'KYI Research and Production Center of
Standardization, metrology and certification»
(SE "CHERKASYSTANDARTMETROLOHIYA")**


Testing center

**Accredited by the National Accreditation Agency UKRAINE
IN COMPLIANCE 150 ISO / IEC 17025: 2006
Certificate of Accreditation number 2N632 ON 25/04/2019**

**Testing laboratory of food products and food raw
UMAN**

APPROVED:

Chief of the test laboratory food
and raw materials in Uman town

 P.V. Zadnipyrynets
13th of March 2019



Test reports

Number 405 / 16 -VTS / 2 of 15.03.2019

Service customer:

The house testing and registration number:

405. Walnut Kernels Oil.

The purpose of the tests: testing of product samples for compliance ISO 6047: 2008 walnut oil. Specification samples of products for compliance with the ILO and CH 5061-89 "Medical and biological requirements and the quality of the food products" under agreements with companies and organizations.

Additional information: Customer samples are taken according to ISO 4349 "Oils. Methods of sample tests".

Date of receipt of the sample for tests: on 4th of March 2019 samples was received in the testing laboratory of raw food in a condition suitable for testing.

Tests carried out in the period: March 4, 2019 through March 15, 2019.

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The names and units	Normative documents for test methods	Value indicators for regulatory documentation	Test results	Accuracy (Extended uncertainty)	Evaluation of compliance
Toxic elements					
Mass fraction of lead, mg / kg	GOST 30178-96	Less than 0.1	Less than 0.05 *	-	Compliant
Mass fraction of cadmium, mg / kg	GOST 30178-96	Less than 0,05	Less than 0,002*	-	Compliant
Mass fraction of copper, mg / kg	GOST 30178-96	Less than 0,5	0,32	U = ±0,12	Compliant
Mass fraction of zinc, mg / kg	GOST 30178-96	Less than 5,0	1,68	U = ±0,52	Compliant
Mass fraction of mercury mg / kg	MVI 081 / 12-0270-06	Less than 0,03	Less than 0,003*	-	Compliant
Mass fraction of arsenic, mg / kg	GOST 30178-96	Less than 0,1	Less than 0,05*	-	Compliant
Mass fraction of iron, mg / kg	GOST 30178-96	Less than 5,0	1,67	U = ±0,31	Compliant
Pesticides					
Mass fraction HCH (in-isomer), mg / kg	MVI 081/12-0096-03	Less than 0,05	Less than 0,001*	-	Compliant
Mass fraction of Heptachlor mg / kg	MVI 081/12-0096-03	Not allowed	Not detected (less than 0,001 *)	-	Compliant
Mass fraction of DDT mg / kg	MVI 081/12-0096-03	Less than 0,1	Less than 0,002 *	-	Compliant
Mass fraction metaphos mg / kg	MB number 3222-85	Not allowed	Not detected (less than 0,001 *)	-	Compliant
Mycotoxins					
Mass fraction of aflatoxin B) mg / kg	MVN ₀ 2273-80	Less than 0,005	Less than 0,001*	-	Compliant
Mass fraction of zearalenone mg / kg	MVN ₀ 2273-80	Less than 1,0	Less than 0,1 *	-	Compliant
Physical and chemical properties					
Acid number, mg KOH / g	ISO 4350: 2004	Less than 4.0	1.4	U = ±0,1	Compliant
Peroxide number and / Ommol / kg	ISO 4570: 2006	Less than 5.0	2.0	U = ±0,1	Compliant
Moisture and volatile substances,%	ISO 4603: 2006	Less 0.2	0,08	U = ±0,11	Compliant

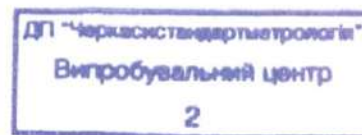
Conclusion: The tested sample meets the requirements for the above parameters.

The test results apply only to samples that were tested.

Note 1. Determination of the mass fraction of toxic elements was conducted - mercury - by atomic absorption (MVI number 081 / 12-0270-06).

Note 2. Determination of the mass fraction of pesticide residues - by gas chromatography (MVI number 081 / 12-0096-03)

NOTE 3. * - The limit of sensitivity testing methods.



Responsible performer: Engineer of the 1st category *Жданова* Orehovska K.A.

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