

UKRAINE
THE INDEPENDENT CENTRE OF LABORATORY RESEARCHES «ETALON»
 Accreditation Attestation NAAU (DSTU ISO/IEC 17025:2019) № 20846 till March 09, 2025

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20846
 ДСТУ ISO/IEC 17025

PROTOCOL №2484
 of testing
 August, 09, 2023

The director of ICLR «Etalon»

Kravtsov O. M.
 August, 09, 2023

Customer, address, Tel/Fax: LLC "Zhashkiv Equestrian Sports School" Cherkasy region, Uman district, Sokolivka, St. 11a, Pershoho Travnnya St.

Production name: Walnut kernel mix

Date of production: crop 2022

Production consignment size/Lot: 20 t (LOT: WBK - 07.07.2023)

Statement of selection: u/n of August, 02, 2023 (commission members: Khorobets K.V., Melnyk V.I., Slipenko V.M.)

Sample state and description: in polyethylene package, sealed

Producing company: LLC "Zhashkiv Equestrian Sports School", Cherkasy region, Uman district, Sokolivka, St. 11a, Pershoho Travnnya St.

Date of receiving the samples for the researches: August, 04, 2023

Period of the researches: August, 04, 2023 - August, 09, 2023

Object of the researches: is the samples testing for meeting the requirements of Unece Standard DDP-02:2003 Walnut Kernels, Regulation of maximum level for certain contaminants in foodstuffs (Decree №368 of Ministry of Health of Ukraine, dated of May, 13, 2013) {With changes made in accordance with the Decree № 1238 of Ministry of Health of Ukraine, dated of 22.05.2020}, GN 6.6.1.1-130-2006 «Allowable levels of radioactive nuclides Cs-137 and Sr-90 in food products and drinking water, Hygiene Standards and Regulations for the Safe Use of Pesticides and Agrochemicals», approved by the Order of the Ministry of Health of Ukraine on February 02, 2016 No. 55 (as amended by the Order of the Ministry of Health of Ukraine on March 30, 2016 No. 282) and SanPiN 2.3.2.1078-01 «Hygienic requirements of safety and nutritional value of food products»

RESULTS OF THE RESEARCHES:

№	Name of the Parameter, Unit of Measure	Results	Required Level or Range	Testing Method	Uncertainty Level
Physical and chemical parameters					
1.	Moisture, %	4,4	not more than 5,0	DSTU 4811:2007	0,1**
Mycotoxin content					
2.	Aflatoxin B ₁ , mg/kg	< 0,001*	not more than 0,005	GOST 33780-2016, MVV 614-001-19	undecided
3.	Sum of aflatoxins (B ₁ +B ₂ +G ₁ +G ₂), mg/kg	< 0,001*	not more than 0,004	GOST 33780-2016, MVV 614-001-19	undecided
Toxic elements content					
4.	Lead, mg/kg	< 0,04*	not more than 0,5	GOST 30178-96, MVV 620-014-19	undecided
5.	Cadmium, mg/kg	< 0,005*	not more than 0,1	GOST 30178-96, MVV 620-014-19	undecided
6.	Copper, mg/kg	5,3	not regulated	GOST 30178-96, MVV 620-014-19	0,08**
7.	Zinc, mg/kg	31,6	not regulated	GOST 30178-96, MVV 620-014-19	0,14**
8.	Arsenic, mg/kg	< 0,04*	not regulated	GOST 30178-96, MVV 620-014-19	undecided
9.	Mercury, mg/kg	< 0,002*	not regulated	EN 13806:2002, MVV 620-014-19	undecided

Radioactivity					
10.	Cesium-137, Bq/kg	< 4,4*	not more than 70	DSTU 7868:2015, MI 12-08-99	40 %
11.	Strontium-90, Bq/kg	< 5,3*	not more than 10	DSTU 7867:2015, MI 12-08-99	40 %
<i>Evaluation criterion $B + 0,6 \times \Delta B = 0,74 \leq 1,0$</i>					
Microbiological indicators					
12.	Sulphite reductive clostridium, per 0,01 g	not found	not allowed	DSTU ISO 15213:2014	undecided
13.	Mould fungi, CFU per 1 g	less than 10*	not regulated	DSTU ISO 7954:2005	undecided
14.	Yeast, CFU per 1 g	less than 10*	not regulated	DSTU ISO 7954:2005	undecided
15.	Listeria monocytogenes, per 25 g	not found	not allowed	DSTU ISO 11290-1-2003	undecided
16.	Pathogens and Salmonella, per 25 g	not found	not allowed	DSTU EN 12824:2004	undecided
17.	E.coli, per 1,0 g	not found	not allowed	DSTU GOST 30726-2002	undecided
18.	Staphylococcus aureus per 1,0 g	not found	not allowed	GOST 10444.2-94	undecided
19.	Total plate count, CFU per 1 g	$8,7 \times 10^3$	not more than $1,0 \times 10^6$	DSTU ISO 4833:2006	undecided
20.	Coliformes, per 1,0 g	not found	not allowed	GOST 30518-97	undecided

* - Method Detection Limit (MDL)

** - Measurement uncertainty calculated according to PSU 7.6-01

Conclusion : The sample meets the requirements of Unece Standard DDP-02:2003, Decree №368 of Ministry of Health of Ukraine, dated of May, 13, 2013, GN 6.6.1.1-130-2006, the Order of the Ministry of Health of Ukraine on February 02, 2016 No. 55 and SanPiN 2.3.2.1078-01 by indicated parameters.

The researchers:

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