

**MINISTRY OF ECONOMIC DEVELOPMENT OF UKRAINE  
KYIV OBLSTANDARTMETROLOGIYA STATE ENTERPRISE**

**TEST LABORATORY**

No.2H151  
DSTU ISO/IEC 17025:2006

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APPROVED

Seal      Signed: T.V. Kshanovska, laboratory director  
November 03, 2015

**TEST REPORT No.1347 PR**  
of November 03, 2015

- 1. Description of product (register number):**  
No.2139 **Top grade flour, 1<sup>nd</sup> grade flour, 2<sup>nd</sup> grade flour.** Batch 500 tones.
- 2. Normative documents for products:** GSTU 46.004-99; MBT 5061-89;  
DGN 6.6.1.1-130-2006; Cabinet of Ministers Decree No.468 of 13.05.2009.
- 3. Manufacturer, address:** Bilotserkivkhiboproduct Collective Enterprise, 6 Ofitserska St.,  
Bila Tserkva, Kyiv region.
- 4. Client's name, address:** Bilotserkivkhiboproduct Collective Enterprise, 6 Ofitserska St.,  
Bila Tserkva, Kyiv region.
- 5. Sample collection report:** No.0288 PR of 28.10.2015.
- 6. Date of sample receipt:** 28.10.2015.
- 7. Test completion date:** 03.11.2015
- 8. Equipment used (measuring equipment, test equipment):**

Name of equipment	Serial number	Inventory number
AANALYST 100 atomic-absorption spectrometer	400025	600809
Julia-2 mercury analyzer	1315	0 60077
Khromatek Chrystal-500.2 gas chromatograph	252216	621263
MKS-AT1315 gamma-beta spectrometer	15270	621291
RE-2000B, ULAB rotary evaporator	no number	621233
USP-1 heating device	445-04	62151
Kern EW 220-3NM precision balance	101193105	621255
Kern ABJ 220-4M analytical balance	WB0950020	621230
SNUG II – 150 laboratory balance (4 <sup>th</sup> class)	601555	620015
Thermostat Solid "Tsiklotemp-903"	903-00309	620465
Thermocycler ANC-32 in real time	100808	620563

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Seal      Signed: O.V. Plevachuk, HR department manager



Test report No.1347 PR of 03.11.2015 (continuation)

**9. Test results:****No.2139 Top grade flour, 1<sup>nd</sup> grade flour, 2<sup>nd</sup> grade flour****Toxic elements**

No.	Name of element	Normative documents for test methods	Permissible levels, not exceeding	Test result	Measurement uncertainty***
1	lead, mg/kg	GOST 30178-96	0,5	<0,18**	-
2	cadmium, mg/kg	GOST 30178-96	0,1	<0,014**	-
3	arsenic, mg/kg	GOST 26930-86	0,2	<0,08**	-
4	mercury, mg/kg	GOST 26927-86	0,02	<0,0015**	-
5	copper, mg/kg	GOST 30178-96	10,0	0,95	-
6	zinc, mg/kg	GOST 30178-96	50,0	9,03	-

**Pesticides**

No.	Name, unit of measurement	Normative documents for test methods	Permissible levels, not exceeding	Test results	Measurement uncertainty***
1	aldrin, mg/kg	MV No.2142-80	not allowed	<0,0001*	-
2	hetptachlor, mg/kg	MV No.2142-80	not allowed	<0,0001*	-
3	malathion, mg/kg	MV No.3222-85	1,0	<0,01*	-
4	metaphos, mg/kg	MV No.3222-85	not allowed	<0,01*	-

**Mycotoxins**

No.	Name, unit of measurement	Normative documents for test methods	Permissible levels, not exceeding	Test results	Measurement uncertainty***
1	aflatoxin B <sub>1</sub> , mg/kg	MR No.2273-80	0,005	<0,001*	-
2	zearalanone F <sub>2</sub> , mg/kg	MR No.2964-84	1,0	<0,1**	-
3	T <sub>2</sub> toxin, mg/kg	MU No.3184-84	0,1	<0,01**	-
4	deoxynivalenol (DON), mg/kg	MR No.5177-90	0,50	<0,2**	-

**Molecular genetic characteristics:**

No.	Characteristic, unit of measurement	Normative documents for test methods	Test results	Measurement uncertainty***
1	Presence of genetically modified organisms (GMO)	DSTU ISO 21569:2008	not detected <sup>1</sup>	-

Note: No target sequence of cauliflower mosaic virus 35S promoter (CaMV) or NOS (nopaline synthase) terminator from Agrobacterium tumefaciens detected. Method detection limit – 0,1%

**Radionuclides**

No.	Name, unit of measurement	Normative documents for test methods	Permissible levels, not exceeding	Test results	Measurement uncertainty***
1	Cesium - 137, Bq/kg	MVI.MN 1181-2011	50,0	0,85	-
2	Strontium - 90, Bq/kg	MVI.MN 1181-2011	20,0	0,47	-

Notes:

\*device detection limit

\*\*method detection limit

\*\*\*at applicant's request

In charge of the test:	Leading engineer	Signed	A.P. Svintytska
	Leading bacteriologist	Signed	O.M. Poliarush
	Chemist	Signed	T.Y. Polyviana
	Leading bacteriologist	Signed	K.I. Kondrasheva
	Leading chemist	Signed	S.A. Ivanova

In charge of test report creation:

Leading engineer Signed A.P. Svintytska

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Seal Signed: O.V. Plevachuk, HR department manager

