

**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

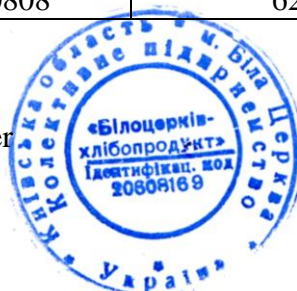
TEST REPORT No.1350 PR
of November 03, 2015

- 1. Description of product (register number):**
No.2142. **Buckwheat.** Batch 200 tones.
- 2. Normative documents for products:** GOST 5550-74; 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.0291 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 th 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.1350 PR of 03.11.2015 (continuation)

9. Test results:No.2139 **Buckwheat.****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 | <0,018** | - |
| 3 | arsenic, mg/kg | GOST 26930-86 | 0,2 | <0,08** | - |
| 4 | mercury, mg/kg | GOST 26927-86 | 0,03 | <0,003** | - |
| 5 | copper, mg/kg | GOST 30178-96 | 10,0 | 5,83 | - |
| 6 | zinc, mg/kg | GOST 30178-96 | 50,0 | 25,6 | - |

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 ₁ , mg/kg | MR No.2273-80 | 0,005 | <0,001* | - |
| 2 | zearalanone F ₂ , mg/kg | MR No.2964-84 | 1,0 | <0,04** | - |
| 3 | T ₂ toxin, mg/kg | MU No.3184-84 | 0,1 | <0,01** | - |
| 4 | deoxynivalenol (DON), mg/kg | MR No.5177-90 | 0,5 | <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 ¹ | - |

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 | 70,0 | 0,88 | - |
| 2 | Strontium - 90, Bq/kg | MVI. MN 1181-2011 | 10,0 | 0,46 | - |

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

