

Test report to order 71711055.1

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Customer: Eurofins Agro Testing Ukraine, Building 2, office 2-202,
Office 2-202, 7 Oktyrskiy Lane, UA-03 680 Kiev
supplier LLC "Ukrwalnut"
Sample PL 96/17

Sample designation:

Lab-ID#: 717105359

Specie/ Variety: walnut [Walnuss (Juglans regia), Nuss (TS)]
#348

Growth stage: Nut

Plant part: Customer

Date of sampling: 2017-10-09

Receipt of sample: 2017-10-09

Test period: 2017-10-09 to 2017-10-12

Plant Analysis

A: Low B: Critical Low **C: Normal** D: Critical High E: High

| Parameter | Class Limit C | Result | Unit | evaluation of the nutrient level | | | | |
|--------------------|------------------|---------|----------|----------------------------------|---|----|---|----|
| | | | | A | B | C | D | E |
| nitrogen (N) | 2,0 - 3,7 | 2,9 | % w/w DS | | | N | | |
| phosphorus (P) | 0,30 - 0,56 | 0,40 | % w/w DS | | | P | | |
| potassium (K) | 0,40 - 0,74 | 0,57 | % w/w DS | | | K | | |
| magnesium (Mg) | 0,090 - 0,18 | 0,15 | % w/w DS | | | Mg | | |
| calcium (Ca) | 0,060 - 0,12 | 0,19 | % w/w DS | | | | | Ca |
| sulfur (S) | - | 0,13 | % w/w DS | | | | | |
| copper (Cu) | 6,4 - 12 | 16 | mg/kg DS | | | | | Cu |
| manganese (Mn) | 15 - 27 | 110 | mg/kg DS | | | | | Mn |
| zinc (Zn) | 20 - 37 | 44 | mg/kg DS | | | | | Zn |
| boron (B) | - | 13 | mg/kg DS | | | | | |
| molybdenum (Mo) | - | < 0,030 | mg/kg DS | | | | | |
| iron (Fe) | 18 - 34 | 38 | mg/kg DS | | | | | Fe |
| dry substance (DS) | | 58,4 | % w/w OS | | | | | |
| N : S | | 22,1 | - | | | | | |
| K : Ca | | 3,0 | - | | | | | |
| K : Mg | | 3,8 | - | | | | | |
| N : P | | 7,2 | - | | | | | |
| N : K | | 5,0 | - | | | | | |
| Ca : P | | 0,5 | - | | | | | |

DS: dry substance, OS: original substance

Literature to classify the results:

Deutsche Forschungsanstalt für Lebensmittelchemie (Hrsg.): Der kleine Souci-Fachmann-Kraut: Lebensmitteltabelle für die Praxis. Wissenschaftliche Verlagsgesellschaft, Stuttgart (2011)

Method:

N: Elementar Analysis, Dumas, VDLUFA-Methodenbuch, Band II, 3.5.2.7
P, K, Mg, Ca, S, Cu, Mn, Zn, B, Mo, Fe: HNO₃-Microwave extraction, analysis according to ICP-OES, DIN EN ISO 11885; 1998-04
DS: DIN ISO 11465 (drying at 105 °C)

Remark:

The test results refer solely to the analysed test specimen. Unless the sampling was done by our laboratory or in our sub-order the responsibility for the correctness of the sampling is disclaimed. This test report is only valid with signature and may only be further published completely and unchanged. Extracts or changes require the authorisation of the EUROFINS Agraranalytik Deutschland in each individual case. Our actual General Terms of Sales GTS (Allgemeine Verkaufsbedingungen AVB) are applicable, if nothing else is agreed. The GTS will be submitted in German on request. Accredited test laboratory according to DIN EN ISO/IEC 17025 notification under the DAkkS German Accreditation System for Testing. The accreditation shall apply for the tests listed in the certificate.

Jena, 2017-10-16


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Dr. V. Leinhos
Analytical Service Manager

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