

AGROLAB Polska Sp z o.o.

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Konskowola@agrolab.pl www.agrolab.pl



AB 444



Ławki Organic
Ławki 41
14-405 Wilczęta

Date 12.07.2024
Customer no. 109337

REPORT 482229 - 712190 / 2

This version replaces the previous test report version of the order 482229, which hereby loses its validity. If applicable, the number reported after the slash of the analysis number(s) identifies the sample(s) affected by the amendments.

Test report version 2
Order 482229

Dear sir, madam,

Amendments to previous version
Amendments to previous version at order level
Language version of the report : English

Yours sincerely,

AGROLAB Polska Sp. z o.o.
Edyta Grzegorzczuk-Majcher
mgr inż. Edyta Grzegorzczuk-Majcher
Konsultant Analityczny

Compiled: AGROLAB Polska mgr inż. Edyta Grzegorzczuk-Majcher, Tel. +48/81 4400704
Customer service

Authorized:
mgr inż. Kinga Mazur-Miazga, Kierownik Pracowni Analiz Fizyko-chemicznych
mgr Ewa Plizga, Kierownik Pracowni Analiz Instrumentalnych

The activities reported in this document are accredited according to PN-EN ISO/IEC 17025:2018-02. Only not accredited activities are identified by the symbol "N".

DOC-18-5376950-EN/P1

Prezes: Paul Wimmer,
Członek Zarządu: Wiebke Puschmann

Sąd Rejonowy Lublin-Wschód z/s w Lublinie
VI Wydział Gospodarczy KRS

NIP 118-07-45-971
REGON 012270240
KRS 0000006477

Obowiązuje wydruk naszych Ogólnych Warunków Współpracy (OWW), dostępne na stronie internetowej firmy <http://www.agrolab.com/en/gtc>. Zwracamy uwagę na stosowanie się do nich.

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Test report version **2**
Order **482229**
Sample no. **712190 / 2**
Sample acceptance **04.12.2023**
Date of sampling **No information.**
Sample taker **Client**
Customer sample description **Kasza gryczana biała bio/ White buckwheat bio**
Packaging **Foil, closed**
Sample condition **No objections**
Acceptance temperature [°C] **+7,0**

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| | Unit | Result | Declaration Method |
|--|-----------|--------------------------|---|
| Nutritional values/nutrients | | | |
| Energy value | kJ/100g | 1405 | MP-00865-PL version 6 valid from 10.02.2021 from calculations |
| Energy value | kcal/100g | 332 | MP-00865-PL version 6 valid from 10.02.2021 from calculations |
| Fat | % | 3,3 | MP-00853-PL version 12 valid from 15.02.2023 Extraction and weighing method |
| Carbohydrates | % | 62 | MP-00865-PL version 6 valid from 10.02.2021 from calculations |
| Fructose | g/100g | <0,500 | MP-02337-PL version 4 valid from 14.02.2023 (HPLC-ELSD) |
| Glucose | g/100g | <0,500 | MP-02337-PL version 4 valid from 14.02.2023 (HPLC-ELSD) |
| Lactose | g/100g | <0,500 | MP-02337-PL version 4 valid from 14.02.2023 (HPLC-ELSD) |
| Maltose | g/100g | <0,500 | MP-02337-PL version 4 valid from 14.02.2023 (HPLC-ELSD) |
| Sucrose | g/100g | 1,27 | MP-02337-PL version 4 valid from 14.02.2023 (HPLC-ELSD) |
| Sugar | g/100g | 1,27^{x)} | calculated |
| Dietary fibre | % | 5,1 | MP-00828-PL version 6 valid from 15.02.2023 Enzymatic and weighing method |
| Protein (Nx6,25) | % | 11,30 | MP-00854-PL version 10 valid from 15.02.2023 Titration method |
| Salt equivalent (calculated sodium * factor 2,5) | g/100g | <0,01 | MP-03310-PL version 1 valid from 16.02.2023 (ICP-OES) |
| Ash | % | 1,70 | MP-00855-PL version 8 valid from 14.02.2023 Weighing method |
| Dry matter | % | 83,4 | MP-00857-PL version 8 valid from 15.02.2023 Weighing method |

Spectrum of fatty acids

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Prezes: Paul Wimmer,
Członek Zarządu: Wiebke Puschnann

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Date 12.07.2024

Customer no. 109337

REPORT 482229 - 712190 / 2

Test report version **2**
Order **482229**
Sample no. **712190 / 2**

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| | Unit | Result | Declaration Method |
|---|------|-----------------|--|
| <i>alpha-linolenic acid C 18:3</i> | % | 1,9 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Arachic acid C 20:0</i> | % | 1,1 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Behenic acid C 22:0</i> | % | 0,80 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Capric acid (C 10:0)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Cetoleinic acid C 22:1</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>cis-vaccenic acid C 18:1</i> | % | 1,6 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Docosadienoic acid C 22:2</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>docosahexanoic acid C 22:6</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>docosatetraenic acid C 22:4</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Docosatrienic acid C 22:3</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Docosenoic acid C 22:1</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Docosenoic acid trans-isomers C 22:1 trans</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Docosopentaenoic acid C22:5 (w-3)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Docosopentaenoic acid C22:5 (w-6)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Eicosadienoic acid C 20:2</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Eicosatetraenoic acid C20:4 n-3</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Eicosatrienic acid C20:3 n-6</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Eicosatrienic C20:3 n-3</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Eicosenoic acid C 20:1</i> | % | 2,0 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Eisosatetraenic acid C20:4 n-6</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>gamma-linolenic acid C 18:3</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Henicosanoic acid C 21:0</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |

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Prezes: Paul Wimmer,
Członek Zarządu: Wiebke Puschnann

Sąd Rejonowy Lublin-Wschód z/s w Lublinie
VI Wydział Gospodarczy KRS

Oświadczamy, że wyłóżliśmy nasze Ogólne Warunki Współpracy (OWW), dostępne na stronie internetowej firmy <http://www.agrolab.com/en/gtc>. Zwracamy uwagę na stosowanie się do nich.

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Date 12.07.2024

Customer no. 109337

REPORT 482229 - 712190 / 2

Test report version **2**
Order **482229**
Sample no. **712190 / 2**

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| | Unit | Result | Declaration Method |
|---|------|-----------------|--|
| <i>Heptadecenoic acid (C 17:1)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Hexadecadioic acid C16:2 (n-4)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Hexadecanoic acid trans-isomers C 16:1 trans</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Hexadecatrienic acid C16:3</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>icosapentaenoic acid C 20:5</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Lauric acid (C 12:0)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Lignoceric acid C 24:0</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Linolic acid C 18:2</i> | % | 37,7 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Margaric acid (C 17:0)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Myristic acid (C 14:0)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Myristoleic acid (C 14:1)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Nervonic acid C 24:1</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Octadecadienoic acid trans-isomers C 18:2 trans</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>octadecatetraeinic acid C 18:4</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Octadecatetrienic acid, trans-isomers C 18:3 trans</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Octadecenoic acid trans-isomers C 18:1 trans</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Octanoic acid (C 8:0)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Oleic acid C 18:1</i> | % | 36,0 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Palmitic acid (C 16:0)</i> | % | 17,2 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Palmitoleinic acid (C 16:1)</i> | % | 0,21 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Pentadecanoic acid (C 15:0)</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| <i>Petroselinic acid C 18:1</i> | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |

NIP 118-07-45-971
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Prezes: Paul Wimmer,
Członek Zarz du: Wiebke Pusmann

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REPORT 482229 - 712190 / 2

Test report version **2**
Order **482229**
Sample no. **712190 / 2**

| | Unit | Result | Declaration Method |
|--|------|--------------------|--|
| Stearic acid (C 18:0) | % | 1,5 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| Tricosanoic acid C 23:0 | % | <0,10 | PN-EN ISO 12966-2:2017-05 p.5.4 and PN-EN ISO 12966-4:2015-07 (GC-FID) |
| Omega 3 fatty acids | % | 1,9 ^{x)} | calculated |
| Omega 6 fatty acids | % | 37,7 ^{x)} | calculated |
| Total monounsaturated fatty acids | % | 39,8 ^{x)} | calculated |
| Total polyunsaturated fatty acids | % | 39,6 ^{x)} | calculated |
| Total saturated fatty acids | % | 20,6 ^{x)} | calculated |
| Total trans fatty acids | % | <0,1 ^{x)} | calculated |

Sums of fatty acids per product

| | | | |
|--|--------|-------------------|------------|
| thereof mono unsaturated fatty acids ^{*)} | g/100g | 1,3 | calculated |
| thereof poly unsaturated fatty acids ^{*)} | g/100g | 1,3 | calculated |
| thereof saturated fatty acids ^{*)} | g/100g | 0,7 | calculated |
| thereof trans fatty acids ^{*)} | g/100g | 0,0 ^{x)} | calculated |

Macroelements

| | | | |
|-------------|-------|-----|---|
| Sodium (Na) | mg/kg | 4,9 | MP-03310-PL version 1 valid from 16.02.2023 (ICP-OES) |
|-------------|-------|-----|---|

^{x)} Single values below the quantification limit or the detection limit were not taken into account.

Explanation: The symbol "<" or n.q. in the result column means, the parameter concerned is not quantifiable at the limit of quantification shown opposite.

Parameter-specific analytical measurement uncertainties and information regarding the method of calculation will be provided upon request if the reported results are above the parameter-specific limit of quantification.

Start of testing: 06/12/2023

End of testing: 12/12/2023

The results are related only to the samples tested. In cases where the laboratory has not been responsible for sampling, the reported results apply to the samples as received. The laboratory is not responsible for the information provided by the customer. The customer information, if any, presented in this test report is not subject to the accreditation of the laboratory and may affect the validity of the test results. Duplication of this document or of parts of it requires the authorization from laboratory.

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Customer service

Authorized:

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mgr Ewa Plizga, Kierownik Pracowni Analiz Instrumentalnych

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