



## Food Allergens Laboratory

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## TEST REPORT

|                                                             |                    |                                 |                               |
|-------------------------------------------------------------|--------------------|---------------------------------|-------------------------------|
| <b>CLIENT DETAILS</b>                                       |                    | Certificate No.                 | : 2915-PL61174-17-02          |
| <b>H.K. AGRILITSA LIMITED</b>                               |                    | Issue No.                       | : 2                           |
| 23 Kennedy, GLOBAL HOUSE, 4th floor, 1075, NICOSIA, CYPRUS. |                    | Date Received                   | : 28/11/2017                  |
|                                                             |                    | Start of Analysis               | :                             |
|                                                             |                    | End of Analysis                 | :                             |
|                                                             |                    | Date of Issue No. 1             | : 08/12/2017                  |
|                                                             |                    | Date of Reissue                 | : 11/12/2017                  |
| <b>SAMPLE DETAILS</b>                                       |                    | <b>SAMPLING PROCESS DETAILS</b> |                               |
| Code                                                        | : 2915-PL61174-17  | Order No                        | : 65759                       |
| Category                                                    | : Fats & Oils      | Sampled by                      | : Πελάτης (Client)            |
| Description                                                 | : 03 TANK / DEKS.3 | Condition                       | : Αποδεκτή (Acceptable)       |
|                                                             |                    | Packaging                       | : Περιέκτης (container) >100g |
|                                                             |                    | Preservation                    | : Ψυγείο (Refrigerator)       |

## RESULTS

| Parameters of Analysis                                    | Result | Units | Detection Limit (DL) | Method           | U <sup>2</sup> |
|-----------------------------------------------------------|--------|-------|----------------------|------------------|----------------|
| Absorption Coefficient for $\lambda=270\text{nm}$ (K 270) | 0.160  |       |                      | EEC Reg. 2568/91 |                |
| Median of fruity (Mf)                                     | 4.0    |       |                      | EEC Reg. 2568/91 |                |
| Median of Bitter (Mb)                                     | 3.2    |       | -                    | EEC Reg. 2568/91 |                |
| Median of Spicy (Ms)                                      | 3.7    |       | -                    | EEC Reg. 2568/91 |                |

The above tests are included in the current Schedule of Accreditation of this Laboratory under ELOT EN ISO/IEC 17025:2005 (ESYD, Accreditation Certificate No 489)

<sup>2</sup> U: Combined uncertainty at 95% confidence level.

| Parameters of Analysis       | Result | Units     | Detection Limit (DL) | Method                                        |
|------------------------------|--------|-----------|----------------------|-----------------------------------------------|
| <b>Saturated Fats</b>        | 16.1   | g/100ml   | 0.1                  | GLC EEC Regulation 2568/91                    |
| <i>Mono-Unsaturated Fats</i> | 66.3   | g/100ml   | 0.1                  | GLC EEC Regulation 2568/91                    |
| <i>Poly-Unsaturated Fats</i> | 9.2    | g/100ml   | 0.1                  | GLC EEC Regulation 2568/91                    |
| trans Fats                   | <DL    | g/100ml   | 0.1                  | GLC EEC Regulation 2568/91                    |
| <b>Fat</b>                   | 91.6   | g/100ml   | 0.1                  | Soxhlet Inhouse Method                        |
| <b>Proteins</b>              | <DL    | g/100g    | 0.1                  | kjeldahl In house according to ISO/DIS 8968-2 |
| <b>Carbohydrates (total)</b> | 0.0    | g/100g    | 0.1                  | CALCULATIVE                                   |
| Total Dietary Fibre          | <DL    | g/100g    | 0.1                  | AOAC 991.43                                   |
| <b>Total Sugars</b>          | <DL    | g/100g    | 0.1                  | HPLC-RI                                       |
| Ash (total)                  | 8.4    | g/100g    | -                    | GREEK CODEX                                   |
| Moisture                     | 0      | g/100g    | -                    | GREEK CODEX                                   |
| <b>Energy</b>                | 3389   | Kj/100gr  | -                    | Calculative (REG1169-2011)                    |
| <b>Energy</b>                | 824    | kcal/100g | -                    | Calculative (REG1169-2011)                    |
| Benzo(a)anthracene           | 1.65   | µg/Kg     | 1                    | Bioo Scientific ELISA                         |

### Lab Director

G. Siragakis, Chemist MSc

### Laboratory Supervisor

Agnieska Ambroziak, Food Engineer MA Dietitian

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## TEST REPORT

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|                                                                                                  |                       |                  |     |                                                   |
|--------------------------------------------------------------------------------------------------|-----------------------|------------------|-----|---------------------------------------------------|
| Determination of Chrysene                                                                        | <b>3.24</b>           | <b>µg/Kg</b>     | 1   | Bioo Scientific ELISA                             |
| Determination of Benzo(b)fluoranthene                                                            | <b>3.01</b>           | <b>µg/Kg</b>     | 1   | Bioo Scientific ELISA                             |
| Benzo(a)pyrene                                                                                   | <b>1.28</b>           | <b>µg/Kg</b>     | 1   | Bioo Scientific ELISA                             |
| Determination of the Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene | <b>9.18</b>           | <b>µg/Kg</b>     | 1   | Modified EAOT EN ISO 15302:2010 HPLC-FLD (O1025A) |
| Acidity                                                                                          | <b>0.13</b>           | <b>%</b>         | -   | EEC Reg. 2568/91                                  |
| Peroxide Value                                                                                   | <b>5.20</b>           | <b>mEq O2/kg</b> |     | EEC Reg. 2568/91                                  |
| Special Absorption Coefficient (ΔK)                                                              | <b>0.007 ± 0.0029</b> |                  |     | EEC Reg. 2568/91                                  |
| Absorption Coefficient for λ=232nm (K 232)                                                       | <b>1.626</b>          |                  |     | EEC Reg. 2568/91                                  |
| <b>ORGANOLEPTIC ASSESMENT</b>                                                                    |                       |                  |     |                                                   |
| Median of defect (Md)                                                                            | <b>0.0</b>            |                  |     | EEC Reg. 2568/91                                  |
| <b>Salt</b>                                                                                      | <b>0.0</b>            | <b>g/100g</b>    | -   | GREEK CODEX                                       |
| Oxidative stability (oxidation test)                                                             | <b>13.1</b>           | <b>hours</b>     | 1   | Rancimat test(120 oC /20lt/h)                     |
| <b>Phthalates</b>                                                                                |                       |                  |     |                                                   |
| Diethylphthalate (DEP)                                                                           | <b>&lt;DL</b>         | <b>mg/Kg</b>     | 0.1 | LC-MS/MS                                          |
| Butylbenzylphthalate (BBP)                                                                       | <b>&lt;DL</b>         | <b>mg/Kg</b>     | 0.1 | LC-MS/MS                                          |
| Dibutylphthalate (DBP)                                                                           | <b>&lt;DL</b>         | <b>mg/Kg</b>     | 0.1 | LC-MS/MS                                          |
| Bis-2-ethylhexyl-phthalate (DEHP)                                                                | <b>0.23</b>           | <b>mg/Kg</b>     | 0.1 | LC-MS/MS                                          |
| Di-isononyl (DINP)                                                                               | <b>&lt;DL</b>         | <b>mg/Kg</b>     | 2   | LC-MS/MS                                          |
| Diethyl Hexyl Phtalate (DHP)                                                                     | <b>&lt;DL</b>         | <b>mg/Kg</b>     | 0.1 | LC-MS/MS                                          |
| waxes                                                                                            | <b>44</b>             | <b>mg/Kg</b>     | 0.1 | EEC Reg. 2568/91                                  |

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