



Certificate N°: 21051006CB

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INSPECTION REPORT

No.: 0656/NR/21/182501

FILE No.: 107127/2021

| | | |
|--|---|--|
| GOODS DESCRIBED AS | : | SOYBEAN OIL; 4 SAMPLES |
| CLIENT | : | GAMOTA JR S.R.O. SÚMRAČNÁ 3, 821 02 BRATISLAVA-RUŽINOV/SLOVAKIA |
| DATE OF RECEIPT OF THE SAMPLES | : | 20.04.2021 |
| PLACE OF RECEIPT OF THE SAMPLES | : | KOMÁRNO/SLOVAKIA |
| SCOPE OF INSPECTION | : | ANALYSIS OF SAMPLES |
| INSPECTOR | : | VÖRÖS M. |

IN PURSUANCE OF AN ORDER GIVEN US BY CLIENT GAMOTA JR S.R.O., WE PERFORMED ANALYSES OF ABOVE-MENTIONED GOODS.

OUR INSPECTOR TOOK OVER FOUR SAMPLES (A 2,5 L EACH) OF GOODS DECLARED AS SOYBEAN OIL ON 20TH APRIL 2021 IN KOMÁRNO/SLOVAKIA.

SAMPLES WERE PACKED AND MARKED AS FOLLOWS:



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ANALYSIS:

TWO SAMPLES WERE SENT TO SGS OIL, GAS & CHEMICALS, TESTING LABORATORY IN PRAGUE/CZ FOR ANALYSIS. IN THE LABORATORY WAS THE AGGREGATE SAMPLE PREPARED BY MIXING OF RECEIVED SAMPLES.

THE FINDINGS AS PER LABORATORY REPORT NO. 61470 DATED 26.04.2021 WERE AS FOLLOWS:

| CODE | TEST DESCRIPTIONS, PARAMETERS | RESULT | UNIT | TESTING METHOD |
|------|-------------------------------|--------|--------------------|---------------------|
| 12 | KINEMATIC VISCOSITY AT 20°C | 66,41 | MM ² /S | SOP 3 (ASTM D 7042) |

FIRST DIGIT DESCRIBES WHETHER THE TEST WAS PERFORMED WITHIN THE ACCREDITATION RANGE OF THE TESTING LABORATORY 1152.1: 1 = TEST WITHIN THE SCOPE OF ACCREDITATION. 2 = TEST OUTSIDE THE SCOPE OF ACCREDITATION. SECOND DIGIT REPRESENTS THE TESTING LOCATION: 1=PRAGUE LABORATORY, U TRATI 42, PRAGUE 10; 2=KOLIN LABORATORY, OVCÁRECKÁ 314, KOLIN 5; 3=MOBILE LABORATORY, U TRATI 42, PRAGUE 10; 1*=OUTSIDE THE PERMANENT LABORATORY; 9=OUTSIDE CONTRACTOR

(F) – TEST PROCEDURE CHANGED WITHIN THE FLEXIBLE SCOPE OF ACCREDITATION

| TESTING METHOD | COMMENTARY |
|---------------------|--|
| SOP 3 (ASTM D 7042) | STABINGER VISCOMETER, EXTENDED MEASUREMENT UNCERTAINTY – 0,5% OF RESULT VALUE. |

EXTENDED MEASUREMENT UNCERTAINTY IS A PRODUCT OF STANDARD MEASUREMENT UNCERTAINTY AND AN EXTENSION COEFFICIENT K=2 WHICH CORRESPONDS TO ABOUT 95% PROBABILITY COVERAGE FOR STANDARD DISTRIBUTION. STANDARD MEASUREMENT UNCERTAINTY WAS DETERMINED IN ACCORDANCE WITH DOCUMENT EA-4/16.

TWO SAMPLES WERE SENT TO SGS LABORATORY IN VARNA/BULGARIA FOR ANALYSIS. IN THE LABORATORY WAS THE AGGREGATE SAMPLE PREPARED BY MIXING OF RECEIVED SAMPLES.

THE FINDINGS REPORTED BY SGS LABORATORY IN VARNA WERE AS FOLLOWS:

| TEST REPORT No.: VA21-04556.001 A | | | | |
|--|--------------------------|----------|----------------------|--------------------------|
| PARAMETER | TEST RESULT, UNCERTAINTY | UNIT | METHOD | TEST CONDITIONS |
| MOISTURE AND VOLATILE MATERIAL CONTENT | 0,04 ± 0,02 | % | BDS EN ISO 662:2016 | DRYING OVEN - 103 °C |
| DRY MATTER | 99,96 | % | CALCULATION | - |
| PEROXIDE VALUE | 2,3 ± 0,1 | MEQO2/KG | BDS EN ISO 3960:2017 | - |
| IODINE VALUE | 132 ± 2 | G/100G | BDS EN ISO 3961:2013 | - |
| INSOLUBLE IMPURITIES | < 0,01 | % | BDS EN ISO 663:2017 | SOLVENT: PETROLEUM ETHER |
| FAT AND FATTY ACIDS CONTENT | | | | |
| TRANS FATTY ACIDS IN OIL | < 0,05 | | | |
| SATURATED FATTY ACIDS IN OIL | 23,2 ± 20 REL. % | % | VLM 132:2013 | GC/FID |
| MONOUNSATURATED FATTY ACIDS IN OIL | 20,7 ± REL. % | | | |
| PHOSPHORUS CONTENT | 5 ± 1 | MG/KG | ISO 10540-1:2003 | - |
| ACID VALUE | 0,09 ± 0,03 | MGKOH/G | ISO 660:2020 | - |
| ACIDITY (FFA) | 0,05 ± 0,02 | % | ISO 660:2020 | EXPR. AS OLEIC ACID |
| LEAD | < 0,05 | MG/KG | VLM 40:2009 | ICP |
| METALS AND NON METALS | | | | |
| SULFUR | < 0,50 | | | |
| COPPER | < 0,05 | MG/KG | VLM 40:2009 | ICP |
| IRON | < 0,05 | | | |
| POTASSIUM | < 0,10 | | | |

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| | | | | |
|---|------------------|------------------------------------|-----------------------|--------------------------------|
| CONVENTIONAL MASS PER VOLUME | 0,9193 ± 0,0009 | G/ML | BDS ISO 6886:2017 | At 20°C, JAULMES PYCNOMETER |
| FLASHPOINT LIMIT TEST | ABOVE 121 °C | ABOVE/BELOW LIMIT FLASHPOINT | BDS ISO 15267:2003 | - |
| SAPONIFICATION VALUE | 190 ± 2 | MGKOH/G | ISO 3657:2020 | - |
| POLYAROMATIC HYDROCARBONS BENZO(A)PYRENE | < 0,50 | µG/KG | VLM 76:2009 | GC/MS/MS |
| GLYCIDYL FATTY ACID ESTERS | 67,0 ± 15 REL. % | µG/KG | AOAC 2018.03:2018 | AS GLYCIDOL, GC/MS/MS |
| FATTY ACID COMPOSITION | | | | |
| CAPROIC ACID C6:0 | < 0,05 | | | |
| CAPRYLIC ACID C8:0 | < 0,05 | | | |
| CAPRIC ACID C10:0 | < 0,05 | | | |
| LAURIC ACID C12:0 | < 0,05 | | | |
| MYRISTIC ACID C14:0 | < 0,05 | | | |
| MYRISTOLEIC ACID C14:1 | < 0,05 | | | |
| PALMIC ACID C16:0 | 9,89 ± 10 REL. % | | | |
| PALMITELAIDIC ACID C16:1 (TRANS) | < 0,05 | | | |
| PALMITOLEIC ACID C16:1 | 0,15 ± 20 REL. % | | | |
| MARGARIC ACID C17:0 | < 0,05 | | | |
| CIS-10-HEPTADECENOIC ACID C17:1 | < 0,05 | | | |
| STEARIC ACID C18:0 | 5,36 ± 10 REL. % | | | |
| OCTADECANOIC ACID C18:1 (TRANS) | < 0,05 | | | |
| OLEIC ACID C18:1 (CIS) | 20,7 ± 5 REL. % | % | ISO 12966-1:2014 | GC/FID |
| LINOLELAIDIC ACID C18:2 (TRANS) | < 0,05 | | | |
| LINOLEIC ACID C18:2 CIS(N6) | 56,1 ± 5 REL. % | | | |
| LINOLENIC ACID C18:3 (ALA) ALPHA | 7,52 ± 10 REL. % | | | |
| LINOLENIC ACID C18:3 (GLA) GAMMA | < 0,05 | | | |
| ARACHIDIC ACID C20:0 | < 0,05 | | | |
| EICOSENOIC ACID C20:1 TRANS-11 | < 0,05 | | | |
| EICOSENOIC ACID C20:1 CIS-11 | < 0,05 | | | |
| EICOSADIENOIC ACID C20:2 | < 0,05 | | | |
| BEHENIC ACID C22:0 | < 0,05 | | | |
| ERUCIC ACID C22:1 (N9) | < 0,05 | | | |
| DECOSADIENOIC ACID C22:2 | < 0,05 | | | |
| LIGNOCERIC ACID C24:0 | < 0,05 | | | |
| NERVONIC ACID C24:1 | < 0,05 | | | |
| TOLUENE INSOLUBLE MATTER | 0,01 | G/100G | ISO 28198:2018 | |

< LIMIT OF QUANTIFICATION (LOC)

* LIMIT OF DETECTION (LOD)

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ESTABLISHED ON 12TH MAY 2021 IN KOŠICE.

PREPARED BY: JANA CALLOVÁ



SGS SLOVAKIA SPOL. S R.O.
APPROVED BY: TOMÁŠ TAKÁČ

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