000		TEST RE	PORT			
SGS	No. VAR22-0002596-0001 A / 18.03.2022				ФК 08 A1	
	Laboratory of SGS Bulgaria Ltd.				Page 1 of 2	
Laboratory of SGS Bulgaria Ltd.	т	Accredited by EA BAS in compliance with BDS EN ISO/IEC 17025:2018, Accreditation certificate:BAS reg. No 86 ЛИ, Dated: 08.03.2021, Valid until: 29.01.2025. EA BAS is a signatory to the EA MLA and ILAC MRA. The scope of accreditation is published on the official web site of SGS Bulgaria Ltd www.sgs.bg				
Analyses ordered by:				16.03.2022	2022	
	distr. Oborishte, 26-28-30 Bacho Kiro Str., Pla Business Centre 1, fl. 4, Sofia				6.03.2022 - 18.03.2022	
Type of sample:		Fats, oils and derivatives. Refined	sunflower oil Vitae d'Oro			
Sample description:		1L				
The sample is identified	by the client as:	PROD. DATE: 14/03/2022/L13337 EXP. DATE: 14/03/2023	,			
The sample is formed by	the client.					
Package:	Plastic		Seal:	No seal		
Package quality:	Unimpaired		Representative for:	-		
Sampling report:	-		Sample temperature:	-		
Sample weight:	-					
The sample is destroyed of	during analysis.					

Physical and compositional tests

Parameter	Unit	Test Result, Uncertainty	Method of Analyses	Test Conditions
Cold test		Clear and limpid	AOAC 929.08:1929	
Refractive index		1.4744 ± 0.0004	BDS EN ISO 6320:2017	At 20°C
Alkalinity (soaps)	mg/kg	< 0.1	BDS EN ISO 10539:2003	-
Unsaponifiable matter	%	0.99 ± 0.18	BDS EN ISO 3596:2004	-
Saponification value	mg KOH/g	189 ± 2	BDS EN ISO 3657:2020	-
Peroxide value	meq O2/kg	1.9 ± 0.1	BDS EN ISO 3960:2017	-
lodine value	g/100g	122 ± 1	BDS EN ISO 3961:2018	-
Acidity (Free Fatty Acids)	%	0.03 ± 0.02	ISO 660:2020	As oleic acid
Moisture and volatile matter	%	0.03 ± 0.03	BDS EN ISO 662:2016	Drying oven - 103°C
Insoluble impurities	%	< 0.01	BDS EN ISO 663:2017	Solvent: n-hexane
Conventional mass per volume	g/mL	0.9174 ± 0.0009	BDS EN ISO 6883:2017	At 20°C, Jaulmes pyknometer
Lovibond colour			ISO 15305:1998	5 1/4 inch cell
Lovibond colour - Red	Lovibond unit	0.8 ± 0.1		-
Lovibond colour - Yellow	Lovibond unit	7.0 ± 0.7		-
Lovibond colour - Blue	Lovibond unit	0.0 ± 0.0		-
Lovibond colour - Neutral	Lovibond unit	0.0 ± 0.0		-

Chemical tests

Parameter	Unit	Test Result, Uncertainty	Method of Analyses	Test Conditions
Metals and non-metals			ISO 10540-1:2003	-
Phosphorus	mg/kg	2 ± 0		-

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Laboratory of SGS Bulgaria Ltd.	Accredited by EA BAS in compliance with BDS EN ISO/IEC 17025:2018, Accreditation certificate:BAS reg. No 86 ЛИ, Dated: 08.03.2021, Valid until: 29.01.2025. EA BAS is a signatory to the EA MLA and ILAC MRA. The scope of accreditation is published on the official web site of SGS Bulgaria Ltd www.sgs.bg			
 Limit of quantification (LOQ) Limit of detection (LOD) Sum of analytes are reported as lower-bound values, unless stated different. The reported uncertainties are expanded by a coverage factor of k=2 to a level of confidence of approximately 95 %. 				

Original 1

Notes:

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Results validated by

Dimitar Krustev - Technical manager

VALIDATED, 18.03.2022

Administrative signature of

Veselka Pashova, Laboratory manager

This electronically generated test report has been checked and approved. It is also valid without handwritten signatures. -------- End of Report ------

Laboratory of SGS Bulgaria Ltd.

Bulgarian Ship Hydrodynamics Centre; 1 William Froude Str.; 9003 Varna; Bulgaria

000		TEST RE	PORT		
Laboratory of SGS Bulgaria Ltd.	No. VAR22-0002596-0001 NA / 18.03.2022 Laboratory of SGS Bulgaria Ltd.			ΦΚ 08 ΝΑ1 Page 1 of 2	
Analyses ordered by:	KLAS OIL EAD distr. Oborishte, 26-28-30 Bacho Kiro Str., Plati		Date of sample receipt: 16.03.		2
		tre 1, fl. 4, Sofia	Date of analysis:	16.03.2022	- 18.03.2022
Type of sample:		Fats, oils and derivatives. Refined	sunflower oil Vitae d'Oro		
Sample description:		1L			
The sample is identified	by the client as:	PROD. DATE: 14/03/2022/L13337 EXP. DATE: 14/03/2023			
The sample is formed by	y the client.				
Package:	Plastic		Seal:	No seal	
Package quality:	Unimpaired		Representative for:	-	
Sampling report:	-		Sample temperature:	-	
Sample weight:	-				
The sample is destroyed of	during analysis.				

Sensory tests

Parameter	Unit	Test Result, Uncertainty	Method of Analyses	Test Conditions
Organoleptic characteristics			BDS 1552:1986 (withdrawn, not revised)	-
Colour		Light yellow		
Odour		Typical, free from foreign odou	r	
Taste		Typical, free from foreign taste		
Limpidity		Clear		
Appearance		Clear		

Limit of quantification (LOQ)
 Limit of detection (LOD)
 Sum of analytes are reported as lower-bound values, unless stated different.

The reported uncertainties are expanded by a coverage factor of k=2 to a level of confidence of approximately 95 %.

Original 1

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Results validated by

Dimitar Krustev - Technical manager

VALIDATED, 18.03.2022

Administrative signature of

Veselka Pashova, Laboratory manager

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