

VV EXIM GROUP OU

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Refined rapseed oil

31/08/2023

Physico-chemical parameters

Taste and smell: taste of impersonal oil, odorless

Color number, mg iodine: 1,2/1,2

Acid number, mg KON/g 0,05

Peroxide number, ½ O mmol / kg: 0,40

Mass fraction of moisture and volatile matter, % 0,10

Mass fraction of unfatte impurities, % absent

Soap (quality sample): absent

Content of phosphoric substances, % by weight, not more than 0,01

- in terms of stearooleocithin

Mass fraction of erucic acid, %: no more than 0.06

Flash point of extraction oil °C: not less than : 240

Indicator name, unit of measurement	Indicator values in accordance with the reference document	Actual values of the indicator	Measurement uncertainty*/accuracy indicator	Reference document for the testing methods
1	2	3	4	5
Iodine number, J2/100g	108 - 118	114		DSTU ISO
Mass fraction of non-soapable substances, %, not more than		0,56		DSTU 6050:2008
Saponification number, mg KOH/g	171 - 180	174		DSTU 4604:2006***
Anisidine number, %		not detected		DSTU ISO 6885-

Toxic elements

Indicator name, unit of measurement	Indicator values in accordance with the reference document	Actual values of the indicator	Measurement uncertainty*	Reference document for the testing methods
	2	3	4	5
Plumbum content, mg/kg		0,063		MVV 081/12-16-98 DSTU

				76709014
Cadmium content, mg/kg	0,05	0,0237		MVV 081/12-16-98 DSTU 7670:2014
Arsenicum content, mg/k		not detected		DSTU 76709014 MVV 7.2-14
Mercury content, mg/kg	0,03	not detected		MV 5178-90 MVV 7.2-12
Copper content, mg/kg		0,231		MVV 081/12-16-98 DSTU 7670:2014
Zink content, mg/kg		3,383		MVV 081/12-16-98 DSTU 76709014
Iron content, mg/kg		1,644		COST 26928-86 DSTU 7670:2014

Mycotoxins

Indicator name	Indicator values in accordance with the reference document	Actual values of the indicator	Measurement uncertainty	Reference document for the testing methods
	2	3	4	5
Aflatoxin of B1, mg/kg	0,005	< 0,001		MT 4082-86
Zearalenon, mg/kg		< 0,04		MT 2964-84

Determination of mycotoxin content was carried out by the method of thin-layer chromatography

Radionuclids

Indicator name, units of measurement	Indicator values in accordance with the reference document	Actual values of the indicator	Measurement uncertainty*	Reference document for the testing methods
1	2	3	4	5
Specific activity	100	10,2 ± 4,07		MT 12-08-99
Specific activity ⁹⁰ Sr, Bq/kg	30	4,72 ± 1,89		MT 12-08-99
Compliance index B relative units		0,25		GN 6.6.1,1-130-2006, article 2.7
Error AB, relative units	Less than or equal to 0,14	0,08		GN 6.6.1.1-130-2006, article 2.8
Evaluation criteria B + 06AB	Less than or equal to	0,31		GN 6.6.1.1-130-2006, article 2.9

Molecular genetic indicators

Indicator name, units of measurement	Actual values of the indicator	Measurement uncertainty*	Reference document for the testing methods
	2	3	4

Presence of GMOs	Not detected a target sequence Ofc 4 Epsps		DSTU ISO 21569:2008 DSTU ISO 21571
	Not detected a target sequence of Pat		
	Not detected a target sequence of Bar		

Fatty acid composition

Indicator name, unit of measurement	Indicator values in accordance with the reference document	Actual values of the indicator	Measurement uncertainty*	Reference document for the testin methods
	2	3	4	5
Myristic acid, % (C14:0)				COST 30418-96
Palmitic acid, % (C 16:0)		4,47		
Palmitoleic acid, % (C16:1)		0,15		
Stearic acid, % (C18:0)	0,8 - 2 5	1145		
Oleic acid, % (C18:1)	- 65 0	52,02		
Linoleic acid, % (C 18:2)	18,0 - 20 0	15,85		
Linolenic acid, % (C 18:3)	6,0 - 14,0	5,24		
Arachinic acid, % (C20:0)	0,1 - 1 2	0,43		
Gadoleic acid, % (C20:1)				
Behenic acid, %		0,25		
Erucic acid, % (C22:1)		0,28		
Lignoceric acid, % (C24:0)				
Nervonic acid, % (C24:1)				

Pesticides

Indicator name, unit of measurement	Indicator values in accordance with the reference document	Actual values of the indicator	Measurement uncertainty*	Reference document for the testing methods
1	2	3	4	5
HCCH gamma isomer, m/k	0,05	< 0,05		MT 2142-80
Heptachlor, mg/kg	not allowed	not detected		MT 2142-80
DDT, mg/kg		< 0,05		MT 2142-80
Chlorpyrifos, mg/kg				MT 3222-85 DSTU EN 12393- 1-3 :2003
Chlorpyrifos-methyl		< 0,005		MT 3222-85 DSTU EN 12393-(1-3):2003



Director: _____ **A. Demchenko**