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Unrefined Sunflower Oil	Specification	
		Integrated Management System
		Document Code No. SP-8.5.1-02-01
		Revision No. 0 Sheet 1 of 6

No.	Status	Position	Last Name, Name, Patronymic	Signature	Date
1	Approved by:	Director	Grygorenko O.G.	<i>Signature</i>	<i>February 03, 2020</i>
2		Acting Quality Management Director	Antonova Ya.V.	<i>Signature</i>	<i>February 03, 2020</i>
3		Chief Industrial Engineer	Nikolaichuk Yu.V.	<i>Signature</i>	<i>February 03, 2020</i>
4		Director of Oil Production	Vodolazkyi O.I.	<i>Signature</i>	<i>February 03, 2020</i>
5	Prepared by:	Head of Laboratory	Tykhonovych O.M.	<i>Signature</i>	<i>February 03, 2020</i>

Brought into force by Order No. 27 dated *February 03, 2020*

Original enactment/Implemented to supersede:

Product Characteristic	Components/Indicators
Product / Product Category (Name, Type)	<ul style="list-style-type: none"> - Unrefined winterized sunflower oil (pressed), No. 1 Grade, prepackaged, bulk. - Unrefined non-winterized sunflower oil (pressed), No. 1 Grade, bulk. - Unrefined non-winterized sunflower oil (mixture of pressed and extracted oil), No. 1 Grade, bulk. - Unrefined non-winterized degummed sunflower oil (mixture of pressed and extracted oil), No. 1 Grade, bulk.
1. Raw material	Sunflower seeds
2. Method for production	According to the standard operating procedure and oil manufacturing specification, hydration processing instruction
3. Process	<ul style="list-style-type: none"> - Production of unrefined winterized sunflower oil (pressed), No. 1 Grade, prepackaged, bulk. - Production of unrefined non-winterized sunflower oil (pressed), No. 1 Grade, bulk. - Production of unrefined non-winterized sunflower oil (mixture of pressed and extracted oil), No. 1 Grade, bulk. - Production of unrefined non-winterized degummed sunflower oil (mixture of pressed and extracted oil), No. 1 Grade, bulk.
4. Target market	Fat-and-oil industry companies, general public.
5. Consumer / Use and application	Ready for processing and use by all categories of consumers.
6. Known and potential methods of unintended use of the product and their hazardous effects	Not found.
7. Type of sales (distribution)	Wholesale in oil tank trucks for further processing at food industry enterprises. Wholesale of oil prepackaged in PET bottles.
8. Regulatory document on the product	DSTU 4492:2017 "Sunflower oil. Full product specifications" Technical statement of the Ukrainian Scientific and Research Institute of Oil and Fats dated February 08, 2019 Standard operating procedure (constant) TRU 10.41.00687267.001-18 Hydration processing instruction
9. Nutritional and energy value (per 100 g of product)	3757 (kJ) / 898 (kcal.)

	Specification	
	Unrefined Sunflower Oil	Integrated Management System Document Code No. SP-8.5.1-02-01 Revision No. 0 Sheet 2 of 6

10. Warehouse	Fatty acid profile of sunflower oil:		
	Shorthand name of acid	Trivial (systemic) name of acid	Mass fraction of fatty acid, %
	C _{14:0}	Myristic	Up to 0.2
	C _{16:0}	Palmitic	5.0-7.6
	C _{16:1}	Palmitoleic	Up to 0.3
	C _{18:0}	Stearic	2.7-6.5
	C _{18:1}	Oleic	14.0-39.4
	C _{18:2}	Linoleic	48.3-74.0
	C _{18:3}	Linolenic	Up to 0.3
	C _{20:0}	Arachidic	0.1-0.5
	C _{20:1}	Gondoinic	Up to 0.3
	C _{22:0}	Behenic	0.3-1.5
C _{24:0}	Lignoceric	Up to 1.5	
11. Organoleptic, physical and chemical parameters	Organoleptic, physical and chemical parameters of <i>unrefined winterized sunflower oil (pressed), No. 1 Grade</i>		
	Parameter name	Description	
	Clarity	Clear without lees	
	Taste and smell	A specific taste of sunflower oil with a slightly bitter aftertaste	
	Colour index, mg of Iodine, not > than	25.0	
	Acid-degree value, mg of KOH/g, not >	4.0	
	Peroxide index, ½ O mmol/kg, not >	10.0	
	Mass fraction of phosphorus-containing substances, %, not > than: - in terms of stearo-oleo-lecithin - in terms of P ₂ O ₅	0.40	
	Mass fraction of nonoleaginous impurities, %	Absence	
	Mass fraction of moisture and volatile substances, %, not >	0.15	
	Wax and wax-like substances	Absence	
	Organoleptic, physical and chemical parameters of <i>unrefined non-winterized sunflower oil (pressed), No. 1 Grade</i>		
	Parameter name	Description	
	Clarity	A "net" over the lees is allowed	
	Taste and smell	A specific taste of this kind of sunflower oil. A slightly bitter aftertaste is allowed	
	Colour index, mg of Iodine, not > than	25.0	
	Acid-degree value, mg of KOH/g, not >	4.0	
	Peroxide not >	10.0	

	Specification	
	Unrefined Sunflower Oil	Integrated Management System Document Code No. SP-8.5.1-02-01 Revision No. 0 Sheet 3 of 6

	Mass fraction of phosphorus-containing substances, %, not > than: - in terms of stearo-oleo-lecithin - in terms of P ₂ O ₅	0.60
	Mass fraction of nonoleaginous impurities, %	0.10
	Mass fraction of moisture and volatile substances, %, not >	0.20
Organoleptic, physical and chemical parameters of <i>unrefined non-winterized sunflower oil (mixture of pressed with extracted oil), No. 1 Grade</i>		
Parameter name		Description
	Clarity	A "net" over the lees is allowed
	Taste and smell	A specific taste of this kind of sunflower oil. A slightly bitter aftertaste is allowed
	Colour index, mg of Iodine, not > than	25.0
	Acid-degree value, mg of KOH/g, not >	4.0
	Peroxide index, ½ O mmol/kg, not >	10.0
	Mass fraction of phosphorus-containing substances, %, not > than: - in terms of stearo-oleo-lecithin	0.60
	Mass fraction of nonoleaginous impurities, %	0.10
	Mass fraction of moisture and volatile substances, %, not >	0.20
Organoleptic, physical and chemical parameters of <i>unrefined non-winterized hydrated sunflower oil (mixture of pressed with extracted oil), No. 1 Grade</i>		
Parameter name		Description
	Clarity	A "net" over the lees is allowed
	Taste and smell	A specific taste of this kind of sunflower oil. A slightly bitter aftertaste is allowed
	Colour index, mg of Iodine, not > than	25.0
	Acid-degree value, mg of KOH/g, not >	4.0
	Peroxide index, ½ O mmol/kg, not >	10.0
	Mass fraction of phosphorus-containing substances, %, not > than: - in terms of stearo-oleo-lecithin	0.60

	Specification	
	Unrefined Sunflower Oil	Integrated Management System <hr/> Document Code No. SP-8.5.1-02-01 <hr/> Revision No. 0 <hr/> Sheet 4 of 6

	Mass fraction of nonoleaginous impurities, %	0.10
	Mass fraction of moisture and volatile substances, %, not >	0.20
12. Safety parameters (chemical, physical, biological)	Name of toxic element	Allowable levels, mg/kg, shall not exceed
	Lead	0.1
	Arsenic	0.1
	Cadmium	0.05
	Mercury	0.03
	Copper	0.5
	Iron	5.0
	Zinc	5.0
	Mycotoxins:	
	Aflatoxins B1	0.005
	Zearalenone	1.0
	Pesticides:	
	Hexachlorocyclohexane (Gamma isomers)	0.05
	DDT	0.1
	Heptachlor	Not allowed
Radionuclides, Bq/kg:		
Caesium - 137	100	
Strontium – 90	30	
Benzo(a)pyrene	Allowable levels, µg/kg, shall not exceed	
	2	
	Biological	
	Microbiological parameters of - winterized and unwinterized sunflower oil hydrated, No. 1 Grade - are not defined.	
	Physical: absence of foreign particles such as metal, glass, stones, jewellery.	
13. Labelling	Labelling is performed in the state language and the language stipulated in the supply contract. The content of the label must comply with the Law of Ukraine "On Information for Consumers about Food Products", DSTU OIML R 79, the Law of Ukraine "On Basic Principles and Requirements for Food Safety and Quality". <u>Mandatory labelling information:</u> 1) Name of oil, its type, grade, mark (if available) and intended use; 2) Composition of the food product (in case of presence of food additives, their designations, amount of ingredients); 3) Indication of vitamins content (if they are added); 4) Rated quantity of oil – net weight; additional indication of the volume is allowed; 5) Date of manufacturing (day, month, year) and filling date (day, month, year), if the latter is not the date of manufacturing; 6) Shelf life or Best before date; 7) Storage conditions; 8) Name and location of marker operator (legal address, country); 9) Batch number of production; 10) Nutritional value with indication of the amount of proteins, carbohydrates and fats in the established units of measurement per 100 g (100 ml) of food product and energy value (caloric content) expressed in kJ and/or kcal per 100 g (100 ml) of the food product; 11) Information on genetically modified organisms; 12) Indication of the trademark for goods and services (if any).	

	Specification	
	Unrefined Sunflower Oil	Integrated Management System Document Code No. SP-8.5.1-02-01 Revision No. 0 Sheet 5 of 6

	Indication of this standard; 13) Barcode of the product.
14. Packaging	<u>1. Primary packaging:</u> - for bulk oil – oil tank truck. - for prepackaged product - a preform from polymer of polyethylene terephthalate (PET), a polymeric cap. <u>2. Packaging for transportation:</u> For prepackaged product – a corrugated cardboard box.
15. Storage terms and conditions	Shelf life: - The whole range of products is stored for 12 months. - Sunflower oil in packages from national colourless polymeric materials is stored in dark closed rooms at the recommended temperature range from 0 °C to 30 °C.
16. Transport conditions	Unrefined sunflower oil is transported: <u>In bulk</u> in oil tank trucks with tightly closed hatches intended for transportation in accordance with the cargo transportation regulations effective for the respective type of transportation facility. <u>Prepackaged sunflower oil:</u> Transported in corrugated cardboard boxes. Boxes with prepackaged oil are transported by trucks in accordance with the regulations on transportation of goods effective for the respective type of transportation facility.

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