

PRODUCT SPECIFICATION

Product:	Refined Deodorized Bleached Rapeseed Oil
Ingredients:	100% pure rapeseed oil
Product description:	Physically refined edible oil of vegetable origin obtained from rapeseeds by pressing and extraction. The oil is bleached and deodorized.
Primary Packaging:	PET bottle, plastic canister, PE cap
Secondary packaging:	corrugated cardboard box (when applicable)
Storage and transport requirements:	To be stored in places protected from precipitation fallout and sunlight
Shelf life:	24 months from the date of bottling, if stored in a dark indoor area within the recommended temperature range from 8°C to 20°C
Regulatory reference:	Quality of the product is in compliance with the requirements of DSTU 8175:2015 "Rapeseed Oil. Specifications" (Ukrainian national standard)
Application purpose:	Refined rapeseed oil is used for frying, hot cooking, and hot/cold salad-dressing
Use and application:	This product is fit for direct human consumption.
Appearance & Color:	Clear oily liquid of a slightly yellowish color, without sediment
Taste:	Neutral, free from any foreign taste
Odor:	Neutral, free from any foreign odors
Total Fat:	99.85g per 100g
Energy Value:	899kCal/3696kJ per 100g

PHYSICAL AND CHEMICAL INDICATORS

Test item name and unit	Reference Value	Tested Value*
Color number <i>mg iodine</i>	Max 10	1.1
Acid number <i>mg KOH/g</i>	Max 0.4	0.04 – 0.06
Peroxide number <i>½ O mmol/kg</i>	Max 10	0.4 – 0.6
Content of phosphoric substances in terms of stearoleolecithin %	Max 0.05	None
Non-fat impurity content %	None	
Moisture and volatiles content %	Max 0.15	0.05 – 0.1
Soap <i>quality test</i>	None	
Mass fraction of erucic acid %	1.5	0.1
Flash point of extraction oil °C	Min 240	245

PESTICIDES

DDT <i>mg/kg</i>	Max 0.1	< 0.05
Hexachlorane (HCCH, hexachlorocyclohexane) <i>mg/kg</i>	Max 0.05	< 0.05
Heptachlor <i>mg/kg</i>	Max 0	None

Chlorpyrifos mg/kg	Max 0	< 0.005
Chlorpyrifos-methyl mg/kg	Max 0	< 0.005

HEAVY METALS

Lead (Pb) mg/kg	Max 0.1	0.063
Cadmium (Cd) mg/kg	Max 0.05	0.237
Arsenic (As) mg/kg	Max 0.1	None
Mercury (Hg) mg/kg	Max 0.03	None
Copper (Cu) mg/kg	Max 0.5	0.231
Zinc (Zn) mg/kg	Max 5	3.383
Iron (Fe) mg/kg	Max 5	1.644

TOXINS AND RADIONUCLIDES

Aflatoxin B1 mg/kg	Max 0.005	< 0.001
Zearalenone mg/kg	Max 1	< 0.04
Caesium-137 (Cs-137) Bq/kg	Max 100	10.2
Strontium-90 (Sr-90) Bq/kg	Max 30	4.72

GENETICALLY MODIFIED ORGANISMS (GMO)

Target sequence of cp4 EPSPS %	Max 0.1	None
Target sequence of Pat %	Max 0.1	None
Target sequence of Bar %	Max 0.1	None

FATTY ACID COMPOSITION

C 16:0 %	2.5 – 6	4.47
C 16:1 %	Max 0.6	0.15
C 18:0 %	0.8 – 2.5	1.45
C 18:1 %	50 – 65	52.02
C 18:2 %	18 – 20	18.7
C 18:3 %	6 – 14	6.2
C 20:0 %	0.1 – 1.2	0.43
C 20:1 %	0.1 – 4.3	0.9
C 22:0 %	Max 0.6	0.2

OTHER

Trans fatty acids %	Max 1	0.48
Benzo(a)pyrene content by weight µg/kg	Max 2	0.5

* - This is a reference product specification. The actual tested values may vary slightly from batch to batch. The actual tested values for each individual consignment of this product will be given in respective quality documents issued for that consignment at the time of shipping.