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**CERTIFICATE OF QUALITY**  
**Nº11/05 from 11.05.2018**

**ACEITE VEGETAL SEMILLAS CARDO MARIANO. INGERIBLE. 1ª PRENSADA EN FRÍO.**

**Name of product: Milk Thistle oil (edible oil, cold pressed)**

**Назва: Олія розторопші (харчова олія, холодного віджиму)**

**INCI name: Silybum marianum seed oil**

**Raw material: Thistle seeds**

**Country of origin: Ukraine**

**Production: cold pressed**

**Regulatory of document: TU U 10.4-41871114-001:2018**

**Batch number: 110518**

**Production date: 11.05.2018**

<b>Indicators test</b>	<b>Requirements</b>	<b>Test data</b>	<b>Result</b>
Transparency	Transparent liquid without sediment	Transparent liquid without sediment	Corresponds
Smell and taste	Smell and taste typical of thistle seed oil, without outside odor and taste bitter	Smell and taste typical of thistle seed oil, without outside odor and taste bitter	Corresponds
Color	Light yellow to greenish-brown liquid, various concentration	Light yellow	Corresponds
Moisture and volatile matter %	Not more than 0,2	0,06	Corresponds
Acid number, mg KOH/1g	Not more than 4,0	2,2	Corresponds
Peroxide number, ½ O mg/kg	Not more than 10,0	2,0	Corresponds
Mass fraction of phosphorus-containing substances, % In terms of stearoleletsytyn	Not more than 0,3	0,2	Corresponds
Mass fraction of fat-free lean impurities, %	Not more than 0,10	0,002	Corresponds
The degree of transparency, FEM	Not more than 40	13	Corresponds
Anisidine number of conventional units	Not more than 5,0	1,4	Corresponds
Flash point, C	Not more than 210	meets	Corresponds
<b>Mass fraction of heavy metals and pesticides:</b>			
- Lead, mg/kg	Not more than 0,1	0,003	Corresponds
- Cadmium, mg/kg	Not more than 0,05	0,002	Corresponds

- Arsenic, mg/kg	Not more than 0,1	0,004	Corresponds
- Mercury, mg/kg	Not more than 0,03	0,007	Corresponds
- Copper, mg/kg	Not more than 0,5	0,01	Corresponds
- Zinc, mg/kg	Not more than 5,0	1,1	Corresponds
- Iron mg/kg	Not more than 5,0	1,4	Corresponds
- HHTSK gamma isomer mg/kg	Not more than 0,05	0,03	Corresponds
- Heptachlor mg/kg	Not allowed	no	Corresponds
- DDT and its metabolites mg/kg	Not more than 0,1	0,002	Corresponds

Conclusion: the sample "Milk Thistle oil" series 110518 meets the requirement TU U 10.4-41871114-001:2018 on these indicators. The radionuclide content does not exceed the DR 2006



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