



c/ Verdi 321 bx. 2º 08024 Barcelona
Tf.: 93-2840606 email: info@aromium.es

CERTIFICATE OF QUALITY
№21/05 from 21.05.2018

ACEITE VEGETAL SEMILLAS AMARANTO. INGERIBLE. PRIMERA PRENSADA EN FRÍO

Name of product: Amaranth seed oil (edible oil, cold pressed)

Назва: Амарантова олія (харчова олія, холодного віджиму)

INCI name: Amaranthus caudatus seed oil

Raw material: Amaranth seeds

Country of origin: Ukraine

Production: cold pressed

Regulatory of document: TU U 10.4-41871114-001:2018 **Batch number:** 210518

Production date: 21.05.2018

Indicators test	Requirements	Test data	Result
Transparency	Transparent liquid without sediment	Transparent liquid without sediment	Corresponds
Smell and taste	Smell and taste typical of amaranth seed oil, without outside odor and taste bitter	Smell and taste typical of amaranth 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	0,03	Corresponds
Acid number, mg KOH/1g	Not more than 8,0	1,4	Corresponds
Peroxide number, ½ O mg/kg	Not more than 10,0	2,1	Corresponds
Mass fraction of phosphorus-containing substances,% In terms of stearoleletsytyn	Not more than 0,4	0,2	Corresponds
Mass fraction of fat-free lean impurities, %	Not more than 0,10	0,04	Corresponds
The degree of transparency, FEM	Not more than 40	13	Corresponds
Mass fraction of squalene %	Not less than 1	4,1	Corresponds
Flash point, C	Not more than 225	meets	Corresponds
Mass fraction of heavy metals and pesticides:			
- Lead, mg/kg	Not more than 0,1	0,001	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	0,004	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	1,3	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 "Amaranth seed oil" series 210518 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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