

FGU "Altayskiy CSM" Test Center

Address: 656010, Barnaul City, 4A P. Suhova St. Tel/Fax: 77-41-54. Certificate of accreditation number POCC RU.001 21AU18

Date of registration February 28, 2008. Valid until February 28, 2011

Approved by:  
Chief of Test Center  
(Signed and Stamped) V. F. Popov

Testing Report # 3884 from 15.01.2010

Sample: Oil of Pine Nut. Sample # 2

Client and their address: INC "Siberian Pines", Barnaul City, 188B A. Gagarina St.

Date of Receiving of the sample: January 10, 2010

Registration number (number of technical order): # of certificate of sample acquisition and ND for sample acquisition: acquisition made by client

Goals of the test: not for certification purposes Amount of sample: 0.1 L

Test conditions: Temp – 23.0 C Humidity – 59 approx.% Barometric pressure – 100 kiloPascals

Designation of set indices	Standards to ND	Result	Deviation	Name of SI, IO	ND of testing method
lead, mg/kg	No more then 0.1	0.07	+/-0,01	Polarograph STA	State Standard R 51301-99
arsenic, mg/kg	No more then 0.1	< 0.01		Polarograph STA	State Standard R 51301-99
cadmium, mg/kg	No more then 0.05	< 0.01		Polarograph STA	State Standard R 51301-99
mercury, mg/kg	No more then 0.03	< 0.001		Mercury Analyser PA-915	5178-90
Strontium 90	No more then 80	< 60		PROGRESS	2.6.1.1194-03
Cesium - 137	No more then 60	< 22		PROGRESS	2.6.1.1194-03
acidity index, mg KOH/r, no more	No more then 4.0	0.30	+/-0,05	Chem. measuring dishes	State Standard R 52110-2003
Peroxide value mmol/kg 1/20	No more then 10.0	0.60	+/-0,05	Chem. measuring dishes	State Standard 26593-85
fatty-acid content		Look in attachment			

Conclusion – the sample according to verified readings complies with TY 9141-033-5316736-08

1. Results of the tests cover only the samples tested.
2. Re-printing of the report without consent from testing facility is prohibited.
3. Corrections are made in a separate report.

Tests conducted by (signed)

Chief of Test Laboratory (signed) A. V. Martyushov

Name of the sample

And date of acquisition: Oil of Pine Nut from Sept 04, 2009# of sample: 3884Client: INC "Siberian Pines"

Chromatograph: VARIAN 3900

Type of Detector: PID

Type of Column: Capillary WCOT Fused Silica

Stationary Phase: CP-Wax 58 (FFAP) CB

Column length, m: 50

Column diameter, mm: 0.53

## Results for determining fatty-acid profile in accordance with state standard 30418-96

Acid Designation	Area of peak S <sub>i</sub>		Mass Fraction of acid – X, %		Convergence %	X, %
	I	II	I	II		
<i>C16:0</i>	154.450	379.160	4.04	4.00	0.5	4.0
<i>C18:0</i>	96.160	240.520	2.52	2.54	-0.4	2.5
<i>C18:1</i>	1002.650	2490.580	26.25	26.30	-0.1	26.3
<i>C18:2</i>	1708.240	4249.010	44.72	44.86	-0.2	44.8
<i>Gamma –C 18:3</i>	718.210	1782.290	18.80	18.82	-0.1	18.8
<i>Alpha –C 18:3</i>	7.440	18.830	0.19	0.20	-2.6	0.2
<i>C 20:0</i>	14.090	33.570	0.37	0.35	2.8	0.4
<i>C 20:1</i>	46.810	115.240	1.23	1.22	0.4	1.2
<i>C 20:2</i>	25.280	55.220	0.66	0.58	6.5	0.6
<i>C 20:3</i>	46.830	106.720	1.23	1.13	4.2	1.2
$\Sigma S_i$	3820.160	9471.140	0.02617691	0.01055839	$\Sigma X_i = 100$	

Executing officer (signed)

Chief of Test Center

FGU "Altayskiy CSM" (signed and stamped) Popov V. F.