



**TEST REPORT No. P 2693**

Pages : 1 / 2

**Owner of samples :** Heaven Labs s.r.o.  
P átelství 172/42  
104 00 Praha 10 - Uh ín ves

Order No.: 1116/P  
Delivery method : by post  
Delivery date : 2.7.2015  
Analysis finalization date: 20.7.2015

Requested analyses : chemical

Sample	
No.	Description
P 2693	Bio linen oil cold pressing

**Results of analysis**

Chemical analysis: responsible Ing. Pavelka jr.		P 2693	
Parameter	Unit	Value	±n.%
K dokosanhex.-DHA	g/100g fat	<0,1	
K eikosapent.-EPA	g/100g fat	<0,1	
Alfa-linolenic acid	g/100g fat	46,3	±2,2%
Fatty acids monounsaturated	g/100g fat	23,13	±2,2%
Fatty acids saturated	g/100g fat	11,26	±2,2%
Fatty acids , 3- omega unsaturated	g/100g fat	46,3	±2,2%
Fatty acids , 6- omega unsaturated	g/100g fat	19,1	±2,2%
Fatty acids , 9- omega unsaturated	g/100g fat	22,4	±2,2%
Fatty acids polyunsaturated	g/100g fat	65,61	±2,2%
Fat content	%	100	±2,2%

Inorganic analysis: responsible Ing. Thorová		P 2693	
Parameter	Unit	Value	±n.%
Selenium (Se)	mg/kg	<0,002	

<b>Organic analysis:</b> responsible Ing. Pavelka jr.		<b>P 2693</b>	
<b>Parameter</b>	<b>Unit</b>	<b>Value</b>	<b>±n.%</b>
Carotene-beta	mg/100g	<b>0,086</b>	±16%
Xanthophyll	mg/100g	<b>0,305</b>	±10%
Lycopene	mg/100g	<b>&lt;0,001</b>	
Vitamin A (Retinol)	mg/100g	<b>&lt;0,010</b>	
Vit E	mg/100g	<b>0,410</b>	±10%
Vit K1	mg/100g	<b>&lt;0,005</b>	
Zeaxanthin	mg/100g	<b>0,027</b>	±20 %
Vit D2 - Ergokalciferol	mg/100g	<b>&lt;0,001</b>	
Vit. K2-menachinon - MK7	mg/100g	<b>&lt;0,005</b>	

Notes to sample :

**P 2693 Vit. E (beta+gama+delta-tokoferol) = 23,8 mg/100g**

Notes : Uncertainty  $u = \pm \%$  from given value (expanded uncert.  $k=2$ ), uncertainty of sampling not include,  
\* mean the absolute value of uncertainty.

### Used methods

<b>Parameter</b>	<b>Accreditation</b>	<b>SOP</b>	<b>Method (Name)</b>
Selenium (Se)	A	<b>A-03-1</b>	As and Se hydride generation
Fat content	A	<b>C-9</b>	Total fat - internal directive
Fatty acids saturated	A	<b>C-75</b>	GC/FID
Fatty acids polyunsaturated	A	<b>C-75</b>	GC/FID
Fatty acids monounsaturated	A	<b>C-75</b>	GC/FID
Fatty acids , 9- omega unsaturated	A	<b>C-75</b>	SN ISO 5509 and 5508
K eikosapent.-EPA	A	<b>C-75</b>	SN ISO 5509 and 5508
K dokosanhex.-DHA	A	<b>C-75</b>	SN ISO 5509 and 5508
Alfa-linolenic acid	A	<b>C-75</b>	SN ISO 5509 and 5508
Fatty acids , 3- omega unsaturated	A	<b>C-75</b>	SN ISO 5509 and 5508
Fatty acids , 6- omega unsaturated	A	<b>C-75</b>	SN ISO 5509 and 5508
Vitamin A (Retinol)	A	<b>O-03</b>	internal directive - HPLC/FLD
Vit E	A	<b>O-03</b>	internal directive - HPLC/FLD
Lycopene	A	<b>O-14</b>	internal directive - HPLC-VIS
Zeaxanthin	A	<b>O-14</b>	internal directive - HPLC-VIS
Carotene-beta	A	<b>O-14</b>	internal directive - HPLC-VIS
Xanthophyll	A	<b>O-14</b>	internal directive - HPLC-VIS
Vit K1	A	<b>O-44</b>	internal directive - HPLC-UV
Vit D2 - Ergokalciferol	A	<b>O-26</b>	internal directive - HPLC-UV
Vit. K2-menachinon - MK7	N		internal directive - HPLC-UV

Accreditation : A - accredited method, N - nonaccredited method, SA - accredited contract,  
SN - nonaccredited contract

The analytical results may be considered valid for other products of the above specified sorts providing those fully correspond in composition and other properties to the samples analysed in the Ekocentrum laboratory.

Edited by : Šim nková Jana

Responsible person :

**Ing. Ji í Pavelka**  
manager

Ostrava, 5.8.2015