



**TEST REPORT No. P 4161x**

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

Order No.: **1786/P**  
Delivery method : by post  
Delivery date : 22.12.2014

Analysis finalization date: 18.3.2015

Requested analyses : chemical

Sample	
No.	Description
P 4161	8. Soya lecithin

### Results of analysis

Chemical analysis: responsible Ing. Pavelka jr.		P 4161	
Parameter	Unit	Value	±n.%
Afla B1B2G1G2	mg/kg	<0,002	
Sugar (invert)	%	4,01	±3,1%

Inorganic analysis: responsible Ing. Thorová		P 4161	
Parameter	Unit	Value	±n.%
Arsenic (As)	mg/kg	0,017	±32%
Calcium (Ca)	mg/kg	4100	±8%
Cadmium (Cd)	mg/kg	0,020	±14%
Chromium (Cr)	mg/kg	2,73	±8%
Copper (Cu)	mg/kg	1,11	±8%
Iron (Fe)	mg/kg	106	±8%
Mercury (Hg)	mg/kg	0,0021	±52%
Potassium (K)	mg/kg	14900	±12%
Magnesium (Mg)	mg/kg	3710	±6%
Manganese (Mn)	mg/kg	14,5	±8%
Sodium (Na)	mg/kg	129	±8%
Phosphorus (P)	mg/kg	32600	±8%
Lead (Pb)	mg/kg	<0,010	
Sulfur (S)	mg/kg	322	±16%
Selenium (Se)	mg/kg	0,13	±16%
Zinc (Zn)	mg/kg	18,2	±6%

<b>Organic analysis:</b> responsible Ing. Pavelka jr.		<b>P 4161</b>	
<b>Parameter</b>	<b>Unit</b>	<b>Value</b>	<b>±n.%</b>
Biotin	µg/100 g	<b>2,84</b>	±12%
Carotene-beta	mg/100g	<b>&lt;0,001</b>	
Xanthophyll	mg/100g	<b>0,011</b>	±20%
Lycopene	mg/100g	<b>&lt;0,001</b>	
Niacin	mg/100g	<b>&lt;0,100</b>	
Vitamin A (Retinol)	mg/100g	<b>&lt;0,010</b>	
Thiamine (Vit. B1)	mg/100g	<b>0,027</b>	±20%
Cobalamine (Vit. B12)	µg/100 g	<b>0,079</b>	±10 %
Vit B2	mg/100g	<b>0,006</b>	±20%
Pantothenic Acid (Vit.B5)	mg/100g	<b>13,4</b>	±10%
Vit B6	mg/100g	<b>0,021</b>	±20%
Folic Acid (Vit.B9)	µg/100 g	<b>34,1</b>	±12 %
Vit E	mg/100g	<b>0,218</b>	±10%
Vit K1	mg/100g	<b>0,018</b>	±20%
Vit K3	mg/kg	<b>&lt;1,00</b>	
Zeaxanthin	mg/100g	<b>&lt;0,001</b>	

Notes : Uncertainty u = ± % 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>
Sulfur (S)	N	<b>A-01</b>	OES-ICP (acids mineralization)
Sodium (Na)	A	<b>A-01-1</b>	OES-ICP (acids mineralization)
Magnesium (Mg)	A	<b>A-01-1</b>	OES-ICP (acids mineralization)
Potassium (K)	A	<b>A-01-1</b>	OES-ICP (acids mineralization)
Calcium (Ca)	A	<b>A-01-1</b>	OES-ICP (acids mineralization)
Selenium (Se)	A	<b>A-01-1</b>	OES-ICP (acids mineralization)
Phosphorus (P)	A	<b>A-01-1</b>	OES-ICP (acids mineralization)
Chromium (Cr)	A	<b>A-01-1</b>	OES-ICP (dry ashing)
Copper (Cu)	A	<b>A-01-1</b>	OES-ICP (dry ashing)
Iron (Fe)	A	<b>A-01-1</b>	OES-ICP (dry ashing)
Lead (Pb)	A	<b>A-01-1</b>	OES-ICP (dry ashing)
Zinc (Zn)	A	<b>A-01-1</b>	OES-ICP (dry ashing)
Manganese (Mn)	A	<b>A-01-1</b>	OES-ICP (dry ashing)
Cadmium (Cd)	A	<b>A-01-1</b>	OES-ICP (dry ashing)
Mercury (Hg)	A	<b>A-02-1</b>	AAS - AMA 254 Hg
Arsenic (As)	A	<b>A-03-1</b>	As and Se hydride generation
Sugar (invert)	A	<b>C-11</b>	internal directive - Luff-Schoorl
Afla B1B2G1G2	A	<b>C-76</b>	immunoaffinity chromatography
Pantothenic Acid (Vit.B5)	A	<b>C-97-5</b>	Internal directive - HPLC/UV-VIS
Cobalamine (Vit. B12)	A	<b>M-71-1</b>	Determination B12 by microb. methods
Vitamin A (Retinol)	A	<b>O-03</b>	internal directive - HPLC/FLD
Vit E	A	<b>O-03</b>	internal directive - HPLC/FLD
Vit B2	A	<b>O-08</b>	internal directive - HPLC/FLD
Vit B6	A	<b>O-08</b>	internal directive - HPLC/FLD
Thiamine (Vit. B1)	A	<b>O-08</b>	internal directive - HPLC/FLD
Niacin	A	<b>O-13</b>	internal directive - HPLC-UV
Zeaxanthin	A	<b>O-14</b>	internal directive - HPLC-VIS
Xanthophyll	A	<b>O-14</b>	internal directive - HPLC-VIS
Lycopene	A	<b>O-14</b>	internal directive - HPLC-VIS
Carotene-beta	A	<b>O-14</b>	internal directive - HPLC-VIS
Folic Acid (Vit.B9)	A	<b>O-17</b>	Determination B7, B12 and Folid Acid by ELISA methods
Biotin	A	<b>O-17</b>	Determination B7, B12 and Folid Acid by ELISA methods

**Used methods**

<b>Parameter</b>	<b>Accreditation</b>	<b>SOP</b>	<b>Method (Name)</b>
Vit K1	A	<b>O-44</b>	internal directive - HPLC-UV
Vit K3	N	<b>O-50</b>	internal directive - HPLC-UV

*Accreditation : A - accredited method, N - nonaccredited method, SA - accredited 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,** 27.5.2015