



EKOCENTRUM OVALAB, s.r.o.
Test Laboratory No. 1162 Accredited by Czech Accreditation Institute p.s.c.
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TEST REPORT No. P 1163

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OWNER SAMPLE : Heaven Labs s.r.o.
P átelství 172/42
104 00 Praha 10 - Uh ín ves

Order: 553/P
Sample: by the owner
Delivered: by post
Payment: paid by the owner
Received on: 30.3.2016

Analysis completion on: 22.4.2016

Required investigation: chemical

List of samples	
Sample No.	Identification and description of the sample
P 1163	Soy protein

Results of investigation

Chemical analysis: responsible Ing. Hana Pavelková		P 1163	
Parameter	Unit	Value	±n.%
Afla B1B2G1G2	mg/kg	<0,002	
Protein content	%	83,8	±2,2%
Sugar (invert)	%	0,84	±4%
Fatty acids saturated	g/100g fat	21,95	±2,2%
Fatty acids polyunsaturated	g/100g fat	56	±2,2%
Saccharides	%	1,14	
Starch	%	<0,6	
Fat content	%	2,71	±3%
Total dietary fibre	%	1,54	±3,1%

Inorganic constituents: responsible Ing. Ji í Pavelka, CSc.		P 1163	
Parameter	Unit	Value	±n.%
Arsenic (As)	mg/kg	0,007	±32%
Calcium (Ca)	mg/kg	389	±8%
Cadmium (Cd)	mg/kg	<0,01	
Chromium (Cr)	mg/kg	0,250	±13%
Copper (Cu)	mg/kg	14,5	±8%
Iron (Fe)	mg/kg	110	±8%
Mercury (Hg)	mg/kg	0,0032	±52%
Potassium (K)	mg/kg	1820	±12%
Magnesium (Mg)	mg/kg	589	±6%
Manganese (Mn)	mg/kg	11,9	±8%
Molybdenum (Mo)	mg/kg	1,50	±8%
Sodium (Na)	mg/kg	10200	±8%

Inorganic constituents: responsible Ing. Ji í Pavelka, CSc.		P 1163	
Parameter	Unit	Value	±n.%
Phosphorus (P)	mg/kg	9420	±8%
Lead (Pb)	mg/kg	<0,02	
Sulphur (S)	mg/kg	6600	±16%
Selenium (Se)	mg/kg	0,05	±38%
Zinc (Zn)	mg/kg	23,5	±6%

Organic constituents: responsible Ing. Ji í Pavelka		P 1163	
Parameter	Unit	Value	±n.%
Vit. D2 - Ergokalciferol	mg/100g	0,0022	
Biotin	µg/100 g	20,8	±12%
Carotene-beta	mg/100g	<0,010	
Xanthophyll	mg/100g	0,006	±20%
Lycopene	mg/100g	<0,001	
Niacin	mg/100g	<0,100	
Vitamin A (Retinol)	mg/100g	<0,010	
Thiamine (Vit. B1)	mg/100g	0,024	±20%
Cobalamine (Vit. B12)	µg/100 g	2,01	±10 %
Vit B2, Riboflavin	mg/100g	0,057	±10%
Pantothenic Acid (Vit.B5)	mg/100g	6,60	±10%
Vit B6, Pyridoxin	mg/100g	<0,010	
Folic Acid (Vit.B9)	µg/100 g	142	±12 %
Vitamin C (L-ascorbic acid)	mg/100g	<0,01	
Vit E, alfa-Tokofero	mg/100g	0,079	±10%
Vit K1, Fyllochinon	mg/100g	<0,005	
Vit K2	mg/kg	<0,05	
Zeaxanthin	mg/kg	<0,001	

Remarks to samples:

P 1163 Conversion of protein to soy : 76,52%

Vit D2 (ergokalciferol) = 0,0022 mg/100g = 88 U.I./100g

Remark: Uncertainty $n = \pm \%$ of the result (uncertainty extension $k=2$, corresponding to a reliability level of about 95%)

- sampling uncertainty not included

- values marked * mean absolute uncertainty in units of the result

Unless otherwise stated, the results are based on the original mass of the sample.

Required analytical methods

Parameter	Accreditation	SOP	Clarification SOP (method)
Molybdenum (Mo)	N	A-01	OES-ICP (acids mineralization)
Sulphur (S)	N	A-01	OES-ICP (acids mineralization)
Sodium (Na)	A	A-01-1	OES-ICP (acids mineralization)
Calcium (Ca)	A	A-01-1	OES-ICP (acids mineralization)
Manganese (Mn)	A	A-01-1	OES-ICP (acids mineralization)
Phosphorus (P)	A	A-01-1	OES-ICP (acids mineralization)
Zinc (Zn)	A	A-01-1	OES-ICP (acids mineralization)
Selenium (Se)	A	A-01-1	OES-ICP (acids mineralization)
Lead (Pb)	A	A-01-1	OES-ICP (acids mineralization)
Copper (Cu)	A	A-01-1	OES-ICP (acids mineralization)
Cadmium (Cd)	A	A-01-1	OES-ICP (acids mineralization)
Chromium (Cr)	A	A-01-1	OES-ICP (acids mineralization)
Iron (Fe)	A	A-01-1	OES-ICP (acids mineralization)

Required analytical methods

Parameter	Accreditation	SOP	Clarification SOP (method)
Magnesium (Mg)	A	A-01-1	OES-ICP (acids mineralization)
Potassium (K)	A	A-01-1	OES-ICP (acids mineralization)
Mercury (Hg)	A	A-02-1	AAS - AMA 254 Hg
Arsenic (As)	A	A-03-1	As and Se hydride generation
Protein content	A	C-06	SN ISO 1871
Fat content	A	C-09-1	Total fat - internal directive
Sugar (invert)	A	C-11	internal directive - Luff-Schoorl
Starch	A	C-34	internal directive - Ewers
Fatty acids polyunsaturated	A	C-75	GC/FID
Fatty acids saturated	A	C-75	GC/FID
Afla B1B2G1G2	A	C-76	immunoaffinity chromatography
Total dietary fibre	A	C-83	Total dietary fibre TDF
Saccharides	N		calculation
Pantothenic Acid (Vit.B5)	A	C-97-5	Internal directive - HPLC/UV-VIS
Cobalamine (Vit. B12)	N		RIDASCREEN FAST
Vitamin A (Retinol)	A	O-03	internal directive - HPLC/FLD
Vit E, alfa-Tokofero	A	O-03	internal directive - HPLC/FLD
Vitamin C (L-ascorbic acid)	A	O-07	HPLC/UV
Thiamine (Vit. B1)	A	O-08	internal directive - HPLC/FLD
Vit B2, Riboflavin	A	O-08	internal directive - HPLC/FLD
Vit B6, Pyridoxin	A	O-08	internal directive - HPLC/FLD
Niacin	A	O-13	internal directive - HPLC/UV
Zeaxanthin	N		HPLC-UV-VIS
Lycopene	A	O-14	internal directive - HPLC-VIS
Xanthophyll	A	O-14	internal directive - HPLC-VIS
Carotene-beta	A	O-14	internal directive - HPLC-VIS
Biotin	A	O-17	Determination B7, B12 and Folid Acid by ELISA methods
Folic Acid (Vit.B9)	A	O-17	Determination B7, B12 and Folid Acid by ELISA methods
Vit K2	A	O-44	internal directive - HPLC-UV
Vit K1, Fyllochinon	A	O-44	internal directive - HPLC-UV
Vit. D2- Ergokalciferol	A	O-26	HPLC/UV

Accreditation : A - accredited method, N - non-accredited method, SA - sub-order accredited, F - flexible scope of accreditation

The results relate only to tested items. The report may not be reproduced except in whole without the written permission of the testing laboratory.

Report prepared by : Šim nková Jana

Report approved by :

Ing. Ji í Pavelka
Head of Laboratory

Ostrava, date : 26.4.2016