



TEST REPORT No. P 4159x

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: 27.5.2015

Requested analyses : chemical

Sample	
No.	Description
P 4159	3. Maltodextrin

Results of analysis

Chemical analysis: responsible Ing. Pavelka jr.		P 4159	
Parameter	Unit	Value	±n.%
Afla B1B2G1G2	mg/kg	<0,002	
Sugar (invert)	%	23,9	±2,2%

Inorganic analysis: responsible Ing. Thorová		P 4159	
Parameter	Unit	Value	±n.%
Arsenic (As)	mg/kg	0,002	±56%
Calcium (Ca)	mg/kg	5,84	±8%
Cadmium (Cd)	mg/kg	<0,005	
Chromium (Cr)	mg/kg	0,010	±53%
Copper (Cu)	mg/kg	0,020	±53%
Iron (Fe)	mg/kg	0,092	±23%
Mercury (Hg)	mg/kg	0,0009	±52%
Potassium (K)	mg/kg	<0,10	
Magnesium (Mg)	mg/kg	0,504	±6%
Manganese (Mn)	mg/kg	0,020	±26%
Sodium (Na)	mg/kg	5,41	±8%
Phosphorus (P)	mg/kg	27,5	±8%
Lead (Pb)	mg/kg	<0,010	
Sulfur (S)	mg/kg	0,98	±16%
Selenium (Se)	mg/kg	<0,010	
Zinc (Zn)	mg/kg	0,033	±29%

Organic analysis: responsible Ing. Pavelka jr.		P 4159	
Parameter	Unit	Value	±n.%
Biotin	µg/100 g	< 0,500	
Niacin	mg/100g	< 0,100	
Vitamin A (Retinol)	mg/100g	< 0,010	
Thiamine (Vit. B1)	mg/100g	< 0,002	
Cobalamine (Vit. B12)	µg/100 g	< 0,030	
Vit B2	mg/100g	< 0,002	
Pantothenic Acid (Vit.B5)	mg/100g	0,198	±10%
Vit B6	mg/100g	< 0,020	
Folic Acid (Vit.B9)	µg/100 g	6,93	±12 %
Vitamin C (L-ascorbic acid)	mg/100g	< 1,50	
Vit E	mg/100g	0,038	±20%
Vit K1	mg/100g	< 0,005	
Vit K3	mg/kg	< 1,00	

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

Used methods

Parameter	Accreditation	SOP	Method (Name)
Sulfur (S)	N	A-01	OES-ICP (acids mineralization)
Magnesium (Mg)	A	A-01-1	OES-ICP (acids mineralization)
Potassium (K)	A	A-01-1	OES-ICP (acids mineralization)
Phosphorus (P)	A	A-01-1	OES-ICP (acids mineralization)
Sodium (Na)	A	A-01-1	OES-ICP (acids mineralization)
Calcium (Ca)	A	A-01-1	OES-ICP (acids mineralization)
Cadmium (Cd)	A	A-01-1	OES-ICP (dry ashing)
Zinc (Zn)	A	A-01-1	OES-ICP (dry ashing)
Lead (Pb)	A	A-01-1	OES-ICP (dry ashing)
Chromium (Cr)	A	A-01-1	OES-ICP (dry ashing)
Iron (Fe)	A	A-01-1	OES-ICP (dry ashing)
Copper (Cu)	A	A-01-1	OES-ICP (dry ashing)
Manganese (Mn)	A	A-01-1	OES-ICP (dry ashing)
Mercury (Hg)	A	A-02-1	AAS - AMA 254 Hg
Selenium (Se)	A	A-03-1	As and Se hydride generation
Arsenic (As)	A	A-03-1	As and Se hydride generation
Sugar (invert)	A	C-11	internal directive - Luff-Schoorl
Afla B1B2G1G2	A	C-76	immunoaffinity chromatography
Pantothenic Acid (Vit.B5)	A	C-97-5	Internal directive - HPLC/UV-VIS
Cobalamine (Vit. B12)	A	M-71-1	Determination vit. B12 by microb.methods
Vit E	A	O-03	internal directive - HPLC/FLD
Vitamin A (Retinol)	A	O-03	internal directive - HPLC/FLD
Vitamin C (L-ascorbic acid)	A	O-07-1	HPLC/UV
Vit B6	A	O-08	internal directive - HPLC/FLD
Vit B2	A	O-08	internal directive - HPLC/FLD
Thiamine (Vit. B1)	A	O-08	internal directive - HPLC/FLD
Niacin	A	O-13	internal directive - HPLC-UV
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 K1	A	O-44	internal directive - HPLC-UV
Vit K3	N	O-50	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 : Šimánková Jana

Responsible person :

Ing. Jiří Pavelka
manager

Ostrava, 27.5.2015