The Beneficial Qualities and Purity of
Maharishi Honey
are Documented by Laboratory Tests

Dr. Wiertz - Dipl. Chem. Eggert - Dr. Jörissen GmbH
Handels- und Umweltschutzlaboratorium

Stenzelring 14 b, 21107 Hamburg, Tel.: 040/752709-0, Fax -35

Wiertz/Eggert/Jörissen - Stenzelring 14B - 21107 Hamburg

Maharishi Vedic Organic Agriculture GmbH
K.-Meindel-Str. 7

A-4910 Ried / Innkreis

Your reference : -
Person in charge : Dr. Camps -46

page : 1/5 Hamburg, 15.01.2004

TEST REPORT 379733G / 120

Ref. : Honey

Marked : C-10-03

Ordered by : Maharishi Vedic Organic Agriculture GmbH

Received from : your company

Received on : 06.11.2003 by : Bote
Packing : glass bottle with twist-off-cap
Number / quantity : 1/---
Type of sealing : without Seal/lead
Sample/storage temperature : Roomtemperature/ Roomtemperature
Start/end of analyses : 06.11.2003 / 15.01.2004

TEST RESULTS

Diastase value (acc. DIN 10750)		:	22.7
Hydroxymethylfurfural	**mg/kg**	:	19.60
DIN 10751/1			
Moisture	**%**	:	17.4
DIN 10 752			
Invertase-Zahl (n. Siegenthaler)		:	46.7
Conductivity (DIN 10753)	**mS/cm**	:	0.626
Fructose	**%**	:	38.1
DIN 10758			
Glucose	**%**	:	34.5
DIN 10 758			
Fructose / Glucose		:	1.10
Saccharose	**%**	:	1.1
DIN 10758			
Turanose (HPLC, DIN 10 758 Entw.)	**%**	:	0.6
Maltose	**%**	:	1.6
DIN 10758			
Protein, N x 6,25	**%**	:	0.5
Internal method LM 0070			
(Kjeldahl method)			
Jar free acid			
(DIN 10756)mmol/kg	**%**	:	50.9
Jar free acid			
(DIN 10756)mmol/kg	**%**	:	53.9
Ash 600oC	**%**	:	0.28

TEST REPORT 379733G / 120 vom 15.01.2004 page : 2/5

Waterinsoluble Solids in honey	g/100 g :	0.020
Sulfonamides LMBG L 01.00-66, mod. hydrolysis		
Sulfonamides	µg/kg :	< 10 *
Tetracyclines RIA; Charm-Test	µg/kg :	< 10 *
Streptomycin RIA, Charm-Test	µg/kg :	< 10 *
Honey: % sugar from C4 plants (calculated)	% :	0.0
Isotope analysis (delta C13) (measured against standard PDB)	o/oo :	-26.1
Isotope analysis with internal standard (protein fraction)	o/oo :	-26.1
Potassium (K) DIN EN ISO 11885	mg/kg :	910
Calcium (Ca) DIN EN ISO 11885	mg/kg :	165
Magnesium (Mg) DIN EN ISO 11885	mg/kg :	108
Sodium (Na) DIN EN ISO 11885	mg/kg :	48
Phosphorus (P) DIN EN ISO 11885	mg/kg :	74
Chloride, titrimetr.	mg/kg :	420
Iron (Fe) DIN EN ISO 11885	mg/kg :	3.0
Manganese (Mn) DIN EN ISO 11885	mg/kg :	13
Silicon (Si) DIN EN ISO 11885	mg/kg :	83
Chromium (Cr) AAS, graphite tube technique	mg/kg :	< 0,2 *
Selen (Se) AAS, Graphitrohr-Technik DIN 38405-D23	mg/kg :	< 0,2 *
Zinc (Zn) DIN EN ISO 11885	mg/kg :	0,5
Copper (Cu) DIN EN ISO 11885	mg/kg :	< 0,1 *
Iodine, I photometry acc. to Sandell-Kolthoff	mg/kg :	0.22
Sulfate (SO4), calc. from sulfur (S) DIN EN ISO 11885	mg/kg :	132
Ethanol enzymatische Bestimmung DIN 10762-E	mg/kg :	6.9
Glycerole (enzymat.) DIN 10763-E	mg/kg :	748

Heavy metals		
Cadmium (Cd)	**mg/kg**	**: < 0,01 ***
AAS, graphite tube technique		
Lead (Pb)	**mg/kg**	**: < 0,05 ***
AAS, graphite tube technique		
Mercury (Hg)	**mg/kg**	**: < 0,005 ***
AAS, cold vapour technique		
Vitamin C (HPLC)	**mg/100 g**	**: < 1 ***
Vitamin B1, microbiological activity,	**mg/100 g**	**: < 0,01 ***
rel. to thiamin hydrochloride		
Vitamine B2, microbiological activity,	**mg/100 g**	**: 0.053**
rel. to riboflavine		
(AOAC 94033/45.02.06)		
Vitamin B6, microbiological activity,	**mg/100 g**	**: 0.018**
rel. to pyridoxin hydrochloride		
Nicotinsäure	**mg/100 g**	**: 0.11**
mikrobiologische Aktivität, bez. auf		
Nicotinsäure		
Pantothenic acid	**mg/100 g**	**: 0.18**
Microbiological activity, rel. to		
D-pantothenic acid (AOAC 94574/45.2.05)		
detection of folic acid,	**µg/100 g**	**: 40**
ELISA		
Biotin	**µg/kg**	**: 1.1**
mikrobiologische Aktivität, ber. auf		
Biotin		
Pesticides		
Analyses at the Eurofins laboratory		
Dr. Specht & Partner, Hamburg		
Organochlorpesticides		: not detectable **
Organophosphorus pestizides		: not detectable **
**quantification limit: see enclosure substrate A		
- Amitraz	**mg/kg**	**: < 0,005 ***
analyzed as dimethylaniline		
watersteamdestillation, GC/MS		
- Phenol	**mg/kg**	**: < 0,05 ***
Internal method		
Water steam destillation, GC/MS		
Chloramphenicol (CAP)	**µg/kg**	**: < 0,1 ***
Derivatization (Trimethylsillyl-reagent)		
GC/MS determination, NCI mode		
Microbiological Results		
Aerobic mesophilic colony count	**CFU/g**	**: 40**
LMBG L 06.00-18		
Moulds	**CFU/g**	**: <10**
LMBG L 01.00-37, mod.		
Yeasts	**CFU/g**	**: <10**
LMBG L 01.00-37, mod.		

TEST REPORT 379733G / 120 vom 15.01.2004 page : 4/5

Osmophilic yeasts	**CFU/g :**	**<10**
Internal method		
Mesophilic sulfite-reducing Clostridia	**/g :**	**< 0,3**
LMBG L 06.00-39, mod. (DRCM-Agar)		
Bacillus cereus	**CFU/g :**	**20**
LMBG L00.00-33		

antibacterial activity
(liquid test, turbidity)
: positive
(up to third dilution 1:8)

Sensoric findings **: sweet like honey**
little like honeydew

Microscopical examination

Honey dew compounds **: little**
other compounds **: cristal mass, beehair, spores**
starch
Number of counted pollen **: 500**

Pollen analysis
DIN 10760 (Draft)
(*: plants without nectar)
Very frequent pollen
Mimosas % : ca. 52
Frequent pollen
Galium % : ca. 26
Rare pollen

Amaranthaceae
Anacardiaceae
Combretaceae
Compositae/Vernonia Gr.
Compositae H/Viguiera Typ
Mimosaceae/Mimosa pudica
Mimosaceae/Piptadenia Gr.
Mimosaceae/Mimosa scabrella
Mimosaceae/Schrankiaformen
Rubiaceae/Galium Gr.

Conclusion:

The pollenspektra is characteristic for a mimosaceae honey from Central-southamerica (Brasilia).

Glucose oxidase (Schepartz) **µg H_2O_2/g/Min. : 16,6**

Total Antioxidant Status
(Trolox equivalent antioxidative capacity): 8,42 mmol/kg

...

TEST REPORT 379733G / 120 vom 15.01.2004 page : 5/5

Amino acid composition in mg/1000 g free amino acid:

Aspartic acid	12,9
Threonine	16,1
Serine	25,4
Asparagine	.5,0
Glutamic acid	13,1
Proline	872,8
Glycine	11,6
Alanine	31,3
Valine	19,3
Methionine	15,1
Isoleocine	10,2
Leucine	15,1
Tyrosine	38,0
Phenylalanine	95,5
Omithine	0,7
Lysine	16,1
Histidine	11,3
Arginine	18,5
Glutamin	61,2
Summe	1.289,6

*** the given value corresponds to the limit of determination**

Judgement

Regarding the microbiological examination the sample shows an unobjectable quality.

(Dr. Jörissen / Dr. Hummert / Dr. Winkelmann)
Dr.Wiertz - Dipl.Chem. - Eggert - Dr.Jörissen GmbH
Trade and environmental protection laboratory Hamburg