

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

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

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

Your reference : ./.
Person in charge : Mr. Rußmann -46

page : 1/4 Hamburg, 26.11.2002

TEST REPORT 268305D / 120

Ref. : Honey
Marked : Honey
Ordered by :
Received from : your company
Received on : 14.10.2002 by : messenger
Packing : glasses
Number / quantity : 4/---
Type of sealing : without Seal/lead
Sample/storage temperature : room temperature
Start/end of analyses : 14.10.2002 / 23.01.2004

TEST RESULTS

Diastase value (acc. DIN 10750)	:	17.1
Hydroxymethylfurfural	mg/kg :	1.1
DIN 10751/1		
Moisture	% :	16.9
DIN 10 752		
Invertase-Zahl (n. Siegenthaler)	:	111.4 U/kg
Conductivity (DIN 10753)	mS/cm :	0.52
Fructose	% :	41.9
DIN 10758		
Glucose	% :	34.5
DIN 10 758		
Fructose / Glucose	:	1.21
Saccharose	% :	0.9
DIN 10758		
Turanose (HPLC, DIN 10 758 Entw.)	% :	0.9
Maltose	% :	1.7
DIN 10758		
Protein, N x 6,25	% :	0.4
Internal method LM 0070 (Kjeldahl method)		
free acid (DIN 10 756)	mmol/kg :	25.8
Ash, 600°C	% :	0.28
DIN 10 755, LMBG L 40.00-4		

Orders are accepted and completed according to our General Trading Terms. Place of execution and place of jurisdiction is Hamburg -lower district court Hamburg 66, HRB 31 746

General Manager: Dr. Urban Jörissen, Signing Clerk: Dr. Wilfried Winkelmann, Dr. Christian Hummert. The results of examination refer exclusively to the checked samples.
Duplicates - even in parts - must be authorized by the test laboratory in written form.



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Sulfonamides

LMBG L 01.00-66, mod.

hydrolysis

Sulfonamides

µg/kg : < 10 *

Tetracyclines

RIA; Charm-Test

µg/kg : < 10 **

Tetracyclines

BGB1. 10/1995

HPLC

Streptomycin

RIA, Charm-Test

µg/kg : < 10

Honey: % sugar from C4 plants

% : 0.0

(calculated)

Isotope analysis (delta C13)

o/oo : -24.8

(measured against standard PDB)

**Isotope analysis with internal
standard (protein fraction)**

o/oo : -24.4

Potassium (K)

mg/kg : 1150

DIN EN ISO 11885

Calcium (Ca)

mg/kg : 55

DIN EN ISO 11885

Magnesium (Mg)

mg/kg : 82

DIN EN ISO 11885

Sodium (Na)

mg/kg : 13

DIN EN ISO 11885

Phosphorus (P)

mg/kg : 95

DIN EN ISO 11885

Chloride (Cl-)

mg/kg : 230

acc. EN ISO 10304-1

Iron (Fe)

mg/kg : 2.3

DIN EN ISO 11885

Manganese (Mn)

mg/kg : 1.2

DIN EN ISO 11885

Silicon (Si)

mg/kg : 42

DIN EN ISO 11885

Chromium (Cr)

mg/kg : 0.13

AAS, graphite tube technique

Selen (Se)

mg/kg : < 0,2 *

AAS, Graphitrohr-Technik

DIN 38405-D23

Zinc (Zn)

mg/kg : 0,7

DIN EN ISO 11885

Copper (Cu)

mg/kg : 0.4

DIN EN ISO 11885

Heavy metals

Cadmium (Cd)

mg/kg : < 0,01 *

AAS, graphite tube technique

Lead (Pb)

mg/kg : < 0,05 *

AAS, graphite tube technique

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Mercury (Hg) mg/kg : < 0,005 *
AAS, cold vapour technique

Vitamin C (HPLC) mg/100 g : 1.9

Vitamin B1, microbiological activity, mg/100 g : 0.200
rel. to thiamin hydrochloride

Vitamine B2, microbiological activity, mg/100 g : 0.010
rel. to riboflavine
(AOAC 94033/45.02.06)

Vitamin B6, microbiological activity, mg/100 g : 0.039
rel. to pyridoxin hydrochloride

Nicotinsäure mg/100 g : 0.29
mikrobiologische Aktivität, bez. auf
Nicotinsäure

Pantothenic acid mg/100 g : 0.19
Microbiological activity, rel. to
D-pantothenic acid (AOAC 94574/45.2.05)

detection of folic acid, µg/100 g : 11
ELISA

detection of Biotin mg/100kg : 1,4
with ELISA

Pesticides

Analyses at the Eurofins laboratory
Dr. Specht & Partner, Hamburg

Organochlorine Pesticides : not determinable **

Organophosphorus Pesticides : not determinable **

****Quantification limits: see enclosure** : belonging to method DFG S19,
column A

- **Amitraz** mg/kg : < 0,005 *
analyzed as dimethylaniline
watersteamdistillation, GC/MS

- **Phenol** mg/kg : < 0,05 *
Internal method
Water steam distillation, GC/MS

Microscopical examination

Undefinable pollen : few

Honey dew compounds : middle amounts

other compounds : ---

Number of counted pollen : 500

Pollen analysis

DIN 10760

(*: plants without nectar)

Very frequent pollen

Combretaceae family % : ca. 85

Terminalia sp.

Frequent pollen

none

Rare pollen

Mimosas

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Crucifer
Rape
Proteaceae family % : ca. 3
Anacardiaceae family % : ca. 7

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

Total Antioxidant Status mmol/kg : 2,2
(Trolose equivalent antioxidativ capacity)

Glucose oxidase (Schepartz) µg H₂O₂/g/Min. : 5,2

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

Asparagine	: 249
Aspartic acid	: 61
Glutamine	: 379
Threonine	: 25
Serine	: 37
Glutaminic acide	: 131
Proline	: 458
Glycine	: 10
Alanine	: 40
Valine	: 32
Methionine	: 1
Isoleucine	: 5
Leucine	: 6
Tyrosine	: 48
Phenylalanine	: 60
Tryptophane	: traces
Ornithine	: 74
Lysine	: 62
Histidine	: 4
Arginine	: 159
Taurine	: 4

JUDGEMENT:

The honey is corresponding to the EU-Regulation for honey and the German "Leitsätze für Honig".

The pollenspectrum of the honey is corresponding to an Brasilmonoforalhoney from Combretaceae, type Terminalia.

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

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