

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

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

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



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



**TEST REPORT 268305D / 120** vom 26.11.2002 page : 2/4

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**

o/oo : -24.4

**standard (protein fraction)**

**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

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



**TEST REPORT 268305D / 120** vom 26.11.2002 page : 3/4

**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

# Dr. Wiertz - Dipl. Chem. Eggert - Dr. Jörissen GmbH

Handels- und Umweltschutzzaboratorium



**TEST REPORT 268305D / 120** vom 26.11.2002 page : 4/4

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 H<sub>2</sub>O<sub>2</sub>/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

...