

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

**Institut für Honig-Analytik**

**Quality Services International GmbH Dr. C. Lüllmann**



Sworn Chemist Appointed by the Free Hanseatic City of Bremen

Vereiditeter Handelschemiker der Handelskammer Bremen - Sachverständiger für amtliche Gegenproben

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Maharishi Vedic organic Agriculture GmbH  
K. Meindel Str. 7  
A-4910 Ried  
Österreich

Printed: 21-Apr-2004  
200 / 1

Date: 30-Sep-2003

**Order: 127602/10763**

Order Date: 02-Sep-2003

Product: Honey

Kind: dark liquid

**Label: Sample: MC**

**Sample-No.: 58728**

Sample Date: 02-Sep-2003

Packaging: Glas 750 ml

Seal: without

The test results are exclusively related to the items tested for this sample. This report is allowed to be copied completely and unchanged but not in extracts. Test period: order date till date of this report.

Chemical-physical analysis (25405)

Amino acids (28x), Aminoacid analysator after disintegration with acid, art. 35 LMBG L 49.07-2, foodstuff

(Method)	[Unit]	Result
Alanine		: 20,6mg/100g
alpha-Amino butyric acid		: < 0,05mg/100g
Arginine		: 8,1mg/100g
Asparagine acid		: 34,8mg/100g
Carnosine		: < 0,5mg/100g
Citrulline		: < 0,5mg/100g
Cystine		: < 0,5mg/100g
Glutamine acid		: 42,0mg/100g
Glycine		: 17,0mg/100g
Histidine		: 9,7mg/100g
Hydroxyproline		: < 0,5mg/100g
Isoleucine		: 21,9mg/100g
Leucine		: 31,6mg/100g
Lysine		: 19,2mg/100g
Methionine		: 6,3mg/100g
Ornithine		: 0,5mg/100g
Phenylalanine		: 67,3mg/100g
Phosphoethanolamine		: < 0,5mg/100g
Proline		: 96,0mg/100g
Serine		: 19,5mg/100g
Taurine		: < 0,5mg/100g

Order No.: 127602

SN: 89000

Customer No.: 10763

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Threonine : 20,0mg/100g  
Tyrosine : 6,0mg/100g  
Valine : 27,2mg/100g

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n.n.= < 0.1 g/100g, n.b.= not determined

The examination has to be regarded as a part of the due diligence in usual business.

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Testmanager: gb

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Österreich

Printed: 21-Apr-2004  
200 / 1  
Date: 09-Oct-2003

**Order: 131715/10763**  
Order Date: 07-Oct-2003  
Product: Honey  
Kind: dark liquid  
**Label: Sample: MC**

**Sample-No.: 58728**  
Sample Date: 02-Sep-2003  
Packaging: Glas 750 ml  
Seal: without

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Chemical-physical analysis (75006)  
Element-analysis (max. 6 signals), AAS/ICP-MS

Signal no.	Substance in [mg/kg]
1.	: Phosphorous (P): 1
2.	: Copper (Cu): < 0,1
3.	: Chromium (Cr): < 0,1
4.	: Selenium (Se): < 0,2
5.	: Manganese (Mn): 4,7
6.	: -

n.d. = not detectable

The examination has to be regarded as a part of the due diligence in usual business.

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Testmanager: gb

Order No.: 131715

SN: 93113

Customer No.:10763

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Printed: 21-Apr-2004  
200 / 1  
Date: 08-Sep-2003

**Order: 127599/10763**

Order Date: 02-Sep-2003

Product: Honey

Kind: dark liquid

**Label: Sample: MC**

**Sample-No.: 58728**

Sample Date: 02-Sep-2003

Packaging: Glas 750 ml

Seal: without

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Chemical-physical analysis (75006)

Element-analysis (max. 6 signals), AAS/ICP-MS

Signal no.	Substance in [mg/kg]
1.	: Calcium (Ca): 75
2.	: Magnesium (Mg): 32
3.	: Zinc (Zn): 0,8
4.	: Iron (Fe): 2
5.	: Sodium (Na): 20
6.	: Potassium (K): 950

n.d. = not detectable

The examination has to be regarded as a part of the due diligence in usual business.

Chemical-physical analysis (76161)

Pb, Cd, Hg, AAS/ICP-MS with disintegration, honey

Substance in [mg/kg=ppm]	permitted level**	l.l.p.w.*	Result
Lead (Pb)		0,05	: n.n.
Cadmium (Cd)		0,02	: n.n.
Mercury (Hg)		0,02	: n.n.

\* l.l.p.w. = lower limit of practicable working range, n.d. = not detectable

\*\* for honey no official regulation

The examination has to be regarded as a part of the due diligence in usual business.

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Customer No.: 10763

SN: 88997  
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Chemical-physical analysis (76320)

Iodine, ICP-MS with disintegration, food generally

Substance in [mg/kg=ppm]	l.l.p.w.*	Result
Iodine (I)	0,5	: < 0,2

\* l.l.p.w. = lower limit of practicable working range, may differ matrix correlated, n.d. = not detectable

The examination has to be regarded as a part of the due diligence in usual business.

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Testmanager: gb

Order No.: 127599

SN: 88997

Customer No.: 10763

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**Order: 127601/10763**  
Order Date: 02-Sep-2003  
Product: Honey  
Kind: dark liquid  
**Label: Sample: MC**

**Sample-No.: 58728**  
Sample Date: 02-Sep-2003  
Packaging: Glas 750 ml  
Seal: without

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Chemical-physical analysis (949)

Flavonoids, DAB 1997, monograph "whitethorn leaves with blossoms"

(Method)	[Unit]	Result
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Flavonoids, calc. as Hyperosid (DAB)	[% , g/100g]	: 0,04
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Testmanager: wz

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Customer No.: 10763

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Printed: 21-Apr-2004  
200 / 1  
Date: 04-Sep-2003

**Order: 127590/10763**

Order Date: 02-Sep-2003

Product: Honey

Kind: dark liquid

**Label: Sample: MC**

**Sample-No.: 58728**

Sample Date: 02-Sep-2003

Packaging: Glas 750 ml

Seal: without

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Chemical-physical analysis (109)

Tradeanalysis, Moisture, HMF, Diastase, pH, Acidity, Honey-Directive

	(Method)	[Unit]	Result
Water content	(DIN 10752)	[%]	: 18,7
HMF (hydroxymethylfurfural)	(DIN 10751,part 1)	[mg/kg]	: 12,9
Diastase activity	(DIN 10750)		: 44,9
pH-value	(DIN 10756)		: 3,8
Acidity*	(DIN 10756)	[mmol/kg]	: 32,5
Accordance with EC Honey Directive			: Tablehoney

n.d. = not detectable

The determined values are in accordance with the requirements of Council Directive 2001/110/EC of 20. December 2001 relating to Tablehoney.

Chemical-physical analysis (148)

Invertase, DIN, Hadorn unit, Honey

	(Method)	[Unit]	Result
Invertase	(DIN 10759-1)	[SZ, Hadorn]	: 16,0

n.d. = not detectable

The examination has to be regarded as a part of the due diligence in usual business.

Chemical-physical analysis (170)

Sugar spectrum, HPLC, DIN, honey

	(Method)	[Unit]	Result
Fructose*	(DIN 10758)	[g/100g]	: 37,1
Glucose*	(DIN 10758)	[g/100g]	: 31,2
Saccharose	(DIN 10758)	[g/100g]	: n.n.

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Turanose*	(DIN 10758)	[g/100g]	: 0,9
Maltose*	(DIN 10758)	[g/100g]	: 1,8
Trehalose	(DIN 10758)	[g/100g]	: n.n.
Isomaltose*	(DIN 10758)	[g/100g]	: 0,3
Erlöse	(DIN 10758)	[g/100g]	: 0,2
Melzitose	(DIN 10758)	[g/100g]	: n.n.
Maltotriose*	(DIN 10758)	[g/100g]	: n.n.
F/G ratio			: 1,19

n.d. = not detectable

\*Reducing sugars = Fructose, Glucose, Turanose, Maltose, Isomaltose, Maltotriose

The examination has to be regarded as a part of the due diligence in usual business.

Chemical-physical analysis (186)

Glycerol, enzymatic, Honey

	(Method)	[Unit]	Result
Glycerol	(enzymatic test)	[mg/kg]	: 150

n.d. = not detectable

The examination has to be regarded as a part of the due diligence in usual business.

Chemical-physical analysis (187)

Ethanol, Enzyme test, Honey

	(Method)	[Unit]	Result
Ethanol	(enzymatic test)	[mg/kg]	: 38,5

n.d. = not detectable

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Odour : schwach trachttypisch / weakly source-specific  
Flavour : schwach trachttypisch / weakly source-specific  
Colour : trachttypisch/source-specific  
Consistency : flüssig/liquid

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u.r. = underrepresented; o.r. = overrepresented

\*HD = Honeydew; \*\* Starchgrains in % per 300 pollen- and starchgrains counted

Based on the results determined within this analysis the honey can be classified as Blüten/Blossomhoney according to the actual EC Directive for honey..

Based on the above determined characteristics a declaration as Blossomhoney is in accordance with Art. 2 (2b) of the actual EC-Honey Directive.

Based on the determined pollen spectrum the honey originates from Brazil in accordance with § 2 (2) of the actual EC-Directive for Honey.

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Testmanager: gb

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Order No.: 127591  
Customer No.: 10763

SN: 88989  
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Printed: 21-Apr-2004  
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Date: 05-Sep-2003

**Order: 127591/10763**  
Order Date: 02-Sep-2003  
Product: Honey  
Kind: dark liquid  
**Label: Sample: MC**

**Sample-No.: 58728**  
Sample Date: 02-Sep-2003  
Packaging: Glas 750 ml  
Seal: without

The test results are exclusively related to the items tested for this sample. This report is allowed to be copied completely and unchanged but not in extracts. Test period: order date till date of this report.

Chem.-phy.,microsc., sensoric analysis (220)  
Pollenanalysis, modified acc. Louveux et al., 1978

(Method)	[Unit]	Result
Electr. conductivity (DIN 10753)	[mS/cm]	: 0,45
Predominant pollen 1	[in ca.%]	: keine
Predominant pollen 2	[in ca.%]	: 46(k 47) Mimosa sp. (Mimose)
Secondary pollen 1	[in ca.%]	: 42(k 42) Borreria-Type
Secondary pollen 2	[in ca.%]	: keine
Secondary pollen 3	[in ca.%]	: keine
Minor pollen 1	[in ca.%]	: keine
Minor pollen 2	[in ca.%]	: keine
Minor pollen 3	[in ca.%]	: Ür 02(k 00) Mimosa pudica (Sinnpflanze, Sensitive Plant) ü.r.
Identified pollentypes		: Helianthus (Sonnenblumen, Sunflower) -Type; Prosopis (Mesquite); Restpollen; Hyptis-Type; Alternanthera (P);
HD-Elements, fungal spores *		: wenige/few
HD-Elements, waxwool *		: keine/none
HD-Elements, waxstrings *		: keine/none
Yeastcontent, estimation		: erhöht/increased
Starchgrains **		: einige/some (<16%)
Other solid constituents		: honigtypisch/honey-specific
Kind of honey, HDir., Art.1, Annex I		: Blüten/Blossom
Botanical origin, HDir., Art 2, (2)		: Blossom
Geographical origin, HDir, Art. 2, (2)		: Brazil

Order No.: 127591  
Customer No.: 10763

SN: 88989

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Printed: 21-Apr-2004  
200 / 1  
Date: 08-Oct-2003

**Order: 127600/10763**

Order Date: 02-Sep-2003

Product: Honey

Kind: dark liquid

**Label: Sample: MC**

**Sample-No.: 58728**

Sample Date: 02-Sep-2003

Packaging: Glas 750 ml

Seal: without

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Chemical-physical analysis (47100)

Ascorbic acid (vitamin C), HPLC, foodstuff

Substance in [mg/100g]	l.l.p.w.*	result
Ascorbic acid (Vitamin C)	10	: < 1,2

\*l.l.p.w. = lower limit of practicable working range, n.n./n.d. = not detectable

Chemical-physical analysis (47112)

Vitamin A, HPLC, foodstuff

(method)	[unit]	result
Vitamin A	(HPLC)	[mg/100g] : < 17 ∞ g/100g

n.n. = not detectable

Chemical-physical analysis (47116)

Vitamin B1 (Thiamin), B2 (Riboflavin), B6 (Pyridoxin), HPLC, foodstuff

(Method)	[Unit]	Result
Vitamin B1	(HPLC)	[mg/100g] : < 24 ∞ g/100g
Vitamin B2	(HPLC)	[mg/100g] : 240 ∞ g/100g
Vitamin B6	(HPLC)	[mg/100g] : 69 ∞ g/100g

n.n./n.d. = not detectable, < = lower than

Order No.: 127600

SN: 88998

Customer No.: 10763

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Chemical-physical analysis (47130)

Vitamin E, HPLC, foodstuff

(method)	[unit]	result
Vitamin E	(HPLC)	[mg/100g] : < 0,08

n.n. = not detectable

The examination has to be regarded as a part of the due diligence in usual business.

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Testmanager: wz

Order No.: 127600

SN: 88998

Customer No.: 10763

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**Quality Services International GmbH Dr. C. Lüllmann**

Sworn Chemist Appointed by the Free Hanseatic City of Bremen  
Vereidigter Handelschemiker der Handelskammer Bremen - Sachverständiger für amtliche Gegenproben



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Maharishi Vedic organic Agriculture GmbH  
K. Meindel Str. 7  
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Österreich

Printed: 21-Apr-2004  
200 / 1  
Date: 09-Sep-2003

**Order: 127595/10763**  
Order Date: 02-Sep-2003  
Product: Honey  
Kind: dark liquid  
**Label: Sample: MC**

**Sample-No.: 58728**  
Sample Date: 02-Sep-2003  
Packaging: Glas 750 ml  
Seal: without

The test results are exclusively related to the items tested for this sample. This report is allowed to be copied completely and unchanged but not in extracts. Test period: order date till date of this report.

Chemical-physical analysis (40260)

Adulteration, 13C-Isotope-Mass-Spectrometry, AOAC-method 991.41, Honey with protein

	(Method)	[Unit]	Result
Honey	(AOAC 978.17)	[d-13C ‰]	: - 26,7
Protein of honey	(AOAC 991.41)	[d-13C ‰]	: - 26,6
Difference protein-honey	(AOAC 991.41)	[d-13C ‰]	: + 0,1
C4-sugar-content	(AOAC 991.41)	[%]	: -
Adulteration with C4-sugar			: not adulterated

Judgement of the result: White et al., Journal of AOAC International, Vol. 81, No. 3, 1998

The above determined difference between d-13C Protein minus d-13C Honey shows unequivocally that this honey sample is not adulterated with C4-sugars (eg. corn and cane products).

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Testmanager: gb

Order No.: 127595

SN: 88993

Customer No.: 10763

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Printed: 21-Apr-2004  
200 / 1  
Date: 05-Sep-2003

**Order: 127596/10763**  
Order Date: 02-Sep-2003  
Product: Honey  
Kind: dark liquid  
**Label: Sample: MC**

**Sample-No.: 58728**  
Sample Date: 02-Sep-2003  
Packaging: Glas 750 ml  
Seal: without

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Chemical-physical analysis (86500)  
Amitraz, HRGC, honey

Substance in [mg/kg=ppm]	permitted level**	l.l.p.w.*	Result
Amitraz	0,2	0,005	: n.n.

\* l.l.p.w. = lower limit of practicable working range, n.d. = not detectable  
\*\* for honey according to EC Directive 2377/90

The result of this analysis is according to the effective German Pesticide Directive.

Quality Services International GmbH

Testmanager: gb

*S. Seidel*

Order No.: 127596  
Customer No.: 10763

SN: 88994  
Page 1 of 1 pages

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Printed: 21-Apr-2004  
200 / 1  
Date: 05-Sep-2003

**Order: 127594/10763**

Order Date: 02-Sep-2003

Product: Honey

Kind: dark liquid

**Label: Sample: MC**

**Sample-No.: 58728**

Sample Date: 02-Sep-2003

Packaging: Glas 750 ml

Seal: without

The test results are exclusively related to the items tested for this sample. This report is allowed to be copied completely and unchanged but not in extracts. Test period: order date till date of this report.

Chemical-physical analysis (45230)

Antibiotics, Sulfonamides, HPLC

Substance in [mg/kg]	permitted level**	l.l.p.w.*	result
Sulphaguanidine		0,01	: n.n.
Sulphanilamide		0,01	: n.n.
Sulphacetamide		0,01	: n.n.
Sulphadiazine		0,01	: n.n.
Sulphathiazole		0,01	: n.n.
Sulphapyridine		0,01	: n.n.
Sulphamerazine		0,01	: n.n.
Sulphamether (5-Methoxysulphadiazine)		0,01	: n.n.
Sulphadimidine (=Sulphamethazine)		0,01	: n.n.
Sulphamethoxyipyridazine		0,02	: n.n.
Sulfamethoxazole		0,02	: n.n.

\* l.l.p.w. = lower limit of practicable working range, n.n./n.d. = not detectable

\*\*no legal limit acc. EC-Reg. 2377/90, encl. I means: no permit for using antibiotics in beekeeping

Under consideration of above indicated lowest limit of practical working range this sample is within the range of this analysis according to the EEC Regulation for veterinary medicinal products in foodstuff of animal origin (2377/90 and following ones).

Quality Services International GmbH

Testmanager: gb

Order No.: 127594

Customer No.: 10763

SN: 88992

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Österreich

Printed: 21-Apr-2004  
200 / 1  
Date: 05-Sep-2003

**Order: 127593/10763**

Order Date: 02-Sep-2003

Product: Honey

Kind: dark liquid

**Label: Sample: MC**

**Sample-No.: 58728**

Sample Date: 02-Sep-2003

Packaging: Glas 750 ml

Seal: without

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The test results are exclusively related to the items tested for this sample. This report is allowed to be copied completely and unchanged but not in extracts. Test period: order date till date of this report.

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Chemical-physical analysis (45220)

Antibiotic, Streptomycins, HPLC mod. ac. Kocher (Lebensm.chemie 50: 112-115, 1996), honey

Substance in [mg/kg]	permitted level**	l.l.p.w.*	result
Streptomycins	0,02	0,01	: n.n.

\* l.l.p.w. = lower limit of practicable working range, n.n./n.d. = not detectable

\*\* for honey acc. the German Pesticide-Directive; but not allowed as no MRL acc. EU-Regulation 2377/90, Annex I

Under consideration of above indicated lowest limit of practical working range this sample is within the range of this analysis according to the EEC Regulation for veterinary medicinal products in foodstuff of animal origin (2377/90 and following ones).

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Quality Services International GmbH

Testmanager: gb

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Order No.: 127593

SN: 88991

Customer No.: 10763

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**Order: 127592/10763**  
Order Date: 02-Sep-2003  
Product: Honey  
Kind: dark liquid  
**Label: Sample: MC**

**Sample-No.: 58728**  
Sample Date: 02-Sep-2003  
Packaging: Glas 750 ml  
Seal: without

The test results are exclusively related to the items tested for this sample. This report is allowed to be copied completely and unchanged but not in extracts. Test period: order date till date of this report.

Chemical-physical analysis (45200)

Antibiotics, Tetracyclines, HPLC, Honey

Substance in [mg/kg]	permitted level**	l.l.p.W.	Result
Oxytetracycline (Terramycine R)		0,01	: n.n.
Tetracycline		0,01	: n.n.
Chlorotetracycline		0,01	: n.n.
Doxycycline		0,01	

l.l.p.w.= lowest limit of practical working range resp. detection limit; n.n./n.d.= not detectable

\*\*no legal limit acc. EC-Reg. 2377/90, encl. I means: no permit for use of antibiotics in beekeeping

Under consideration of above indicated lowest limit of practical working range this sample is within the range of this analysis according to the EEC Regulation for veterinary medicinal products in foodstuff of animal origin (2377/90 and following ones).

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Testmanager: gb

Order No.: 127592  
Customer No.:10763

SN: 88990  
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Date: 10-Sep-2003

**Order: 127598/10763**  
Order Date: 02-Sep-2003  
Product: Honey  
Kind: dark liquid  
**Label: Sample: MC**

**Sample-No.: 58728**  
Sample Date: 02-Sep-2003  
Packaging: Glas 750 ml  
Seal: without

The test results are exclusively related to the items tested for this sample. This report is allowed to be copied completely and unchanged but not in extracts. Test period: order date till date of this report.

Chemical-physical analysis (85201)  
Chloro-Pesticides, § 35 L 00.00-34 (DFG S 19 mod.)

Substance in [mg/kg=ppm]	l.l.p.w.*	Result
Aldrin	0,002	: n.n.
Dieldrin	0,005	: n.n.
alpha-Chlordan	0,005	: n.n.
gamma-Chlordan	0,005	: n.n.
o,p'-DDD	0,010	: n.n.
p,p'-DDD	0,010	: n.n.
o,p'-DDE	0,005	: n.n.
p,p'-DDE	0,005	: n.n.
o,p'-DDT	0,010	: n.n.
p,p'-DDT	0,010	: n.n.
alpha-Endosulfan	0,005	: n.n.
β-Endosulfan	0,010	: n.n.
Endrin	0,005	: n.n.
Heptachlor	0,002	: n.n.
Heptachlorepoxyd	0,005	: n.n.
HCB (Hexachlorbenzene)	0,002	: n.n.
alpha-HCH	0,002	: n.n.
β-HCH	0,005	: n.n.
delta-HCH	0,002	: n.n.
gamma-HCH (Lindan)	0,002	: n.n.
Methoxychlor	0,02	: n.n.

Order No.: 127598  
Customer No.: 10763

SN: 88996

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Quintozen 0,010 : n.n.

\* l.l.p.w. = lower limit of practicable working range, n.n./n.d. = not detectable  
< = lower than, n.b. = not determined

Chemical-physical analysis (85460)

Phosphorous pesticides (Standard-S19), HRGC

Substance in [mg/kg=ppm]	permitted level**	l.l.p.w.*	Result
Bromophos-ethyl		0,01	: n.n.
Bromophos		0,01	: n.n.
Carbophenothion		0,005	: n.n.
Chlormephos		0,005	: n.n.
Chlorpyriphos		0,01	: n.n.
Chlorpyriphos-methyl		0,01	: n.n.
Chlorthiophos		0,005	: n.n.
Dichlofenthion		0,005	: n.n.
EPN		0,005	: n.n.
Ethion		0,01	: n.n.
Fenchlorphos		0,005	: n.n.
Fenitrothion		0,01	: n.n.
Iodofenphos		0,005	: n.n.
Leptophos		0,005	: n.n.
Phenkapton		0,005	: n.n.
Phorate		0,005	: n.n.
Prothiofos		0,005	: n.n.
Salithion		0,005	: n.n.
Sulprofos		0,005	: n.n.
Terbufos		0,005	: n.n.
Trichloronat		0,005	: n.n.

\* l.l.p.w. = lower limit of practicable working range, n.n./n.d. = not detectable, n.b.=not determinable  
< = lower than, n.b. = not determined

With respect to our examination program the sample is according to the actual German Pesticide Directive  
RHmV (Rückstands-Höchstmengenverordnung).

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Testmanager: gb

Order No.: 127598

SN: 88996

Customer No.: 10763

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Date: 04-Sep-2003

**Order: 127597/10763**  
Order Date: 02-Sep-2003  
Product: Honey  
Kind: dark liquid  
**Label: Sample: MC**

**Sample-No.: 58728**  
Sample Date: 02-Sep-2003  
Packaging: Glas 750 ml  
Seal: without

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Chemical-physical analysis (86301)

Phenol, HRGC, honey

Substance in [mg/kg=ppm]	permitted level**	l.l.p.w.*	Result
Phenol		0,05	: 0,08

\* l.l.p.w. = lower limit of practicable working range, n.d. = not detectable

\*\* for honey no official regulation (Germany) resp. no legal limit acc. EC-Reg. 2377/90, Annex II

The examination has to be regarded as a part of the due diligence in usual business.

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Quality Services International GmbH

Testmanager: gb

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Order No.: 127597  
Customer No.: 10763

SN: 88995  
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