

Intertek India Pvt. Ltd (Food Services)

ISSUED TO

Patanjali Ayurved Ltd., Unit-2
Maharshi Dayanand Gram,
Beside Divya Nursury, Near
Patanjali Yog Peeth, Bahadrad, Haridwar-249402

TEST REPORT

Doc. No. IFS/DOC/003_02

LAB REFERENCE No : IFS-161013020

Issue Date : 28/10/2016

Your Ref : PO No: 5500004549

Dated : 10/10/2016

Kind Attn: Mr. Ajay Bhandari

Sample Particulars: Honey (Multiflora)

Page 1 of 12

Sample Registration Date : 13/10/2016

Analysis starting Date : 13/10/2016

Analysis Completion Date: 26/10/2016

Name of the Product : Honey (Multiflora)

Quantity received : Approx 250gm X 2No's in Commercial Pack

Sample details : Batch No.: CP69, Mfg Date: 10/16, Expiry: B.B 12 month of mfg date

Sampling done by : Sample not drawn by Intertek

Test required : Chemical & GMO Test

SAMPLE TESTED AS RECEIVED

Reporting code: FS/CR/APS;

TEST RESULTS

Sr. No.	Test Parameters	Units of Measurement	Result	Limit of Quantification	Method of testing
1.	Specific Gravity	-	1.42	-	IS:4941:1994
2.	Moisture	%	19.63	-	IS:4941:1994
3.	Acidity as formic acid	%	0.09	-	IS:4941:1994
4.	Fiehe test	-	Negative	-	IS:4941:1994
5.	HMF	mg/Kg	43.36	-	AOAC 980.23
6.	Colour	mm	42.0	-	By HANNA colour analyzer
7.	Reducing sugar	%	74.56	-	IS:4941:1994
8.	Ash content	%	0.20	-	IS:4941:1994
9.	Foreign Matter	-	Absent	-	Visual
10.	Sucrose	%	Not Detected	0.2	IFS/C/SOP/LC/052
11.	Fructose	%	38.71	0.2	IFS/C/SOP/LC/052
12.	F/G Ratio	-	1.23	-	IFS/C/SOP/LC/052
13.	Chloramphenicol	µg/Kg	Not Detected	0.15	IFS/C/SOP/LC/061
14.	Streptomycin, (including dihydrostreptomycin)	µg/Kg	Not Detected	5.0	IFS/C/SOP/LC/066
15.	Tylosin A	µg/kg	Not detected	5.0	IFS/C/SOP/LC/138
16.	Metronidazole	µg/kg	Not detected	0.5	IFS/C/SOP/LC/138
Nitrofurane Metabolites					
17.	Furazolidone Metabolite (AOZ)	µg/Kg	Not Detected	0.5	IFS/C/SOP/LC/064
18.	Furaltadone Metabolite (AMOZ)	µg/Kg	Not Detected	0.5	IFS/C/SOP/LC/064
19.	Nitrofurantoin Metabolite (AHD)	µg/Kg	Not Detected	0.5	IFS/C/SOP/LC/064
20.	Nitrofurazone Metabolite (SEM)	µg/Kg	Not Detected	0.5	IFS/C/SOP/LC/064
Sulfonamides					
21.	Sulfaguanidine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
22.	Sulfanilamide	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057



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23.	Sulfacetamide	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
24.	Succinylsulfathiazole	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
25.	Sulfaphenazole	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
26.	Sulfadimidine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
27.	Sulfadiazine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
28.	Sulfathiazole	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
29.	Sulfapyridine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
30.	Sulfamerazine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
31.	Sulfamethazine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
32.	Sulfamer	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
33.	Sulfamethoxypyridazine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
34.	Sulfachloropyridazine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
35.	Sulfamonomethoxine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
36.	Sulfisoxazole	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
37.	Sulfamethoxazole	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
38.	Sulfadoxine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
39.	Sulfaquinoxaline	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
40.	Sulfadimethoxine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
41.	Sulfabenzamide	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
42.	Sulfamoxole	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
43.	Sulfaclozine	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
44.	Sulfamethizole	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/057
Tetracyclines					
45.	Tetracycline (Sum of Tetracycline & 4-epi Tetracycline)	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/059
46.	Oxytetracycline (Sum of Oxytetracycline & 4-epi Oxytetracycline)	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/059



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47.	Chlortetracycline (Sum of Chlortetracycline & 4-epi Chlortetracycline)	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/059
48.	Doxycycline Bee Treatment Agents	µg/Kg	Not Detected	2.0	IFS/C/SOP/LC/059
49.	Amitraz	µg/Kg	Not Detected	5.0	IFS/C/SOP/GC/110
50.	Coumaphos	µg/Kg	Not Detected	5.0	IFS/C/SOP/LC/056
51.	Fluvalinate	µg/Kg	Not Detected	2.0	IFS/C/SOP/GC/110
52.	Carbendazim	µg/Kg	Not Detected	5.0	IFS/C/SOP/LC/056
53.	Chlordimeform	µg/Kg	Not Detected	5.0	IFS/C/SOP/GC/110



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SAMPLE TESTED AS RECEIVED

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TEST RESULTS

Fluoroquinolones-2 by LC-MS/MS *

Parameters	Result	Unit	Method
Cinoxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Ciprofloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Danofloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Difloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Enoxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Enrofloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Fleroxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Flumequin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Lomefloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Marbofloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Nadifloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Nalidixic Acid	n.d.	µg/Kg	PM DE01_057 (a) ¹
Norfloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Orbifloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Ofloxacin (Levofloxacin)	n.d.	µg/Kg	PM DE01_057 (a) ¹
Oxolinic Acid	n.d.	µg/Kg	PM DE01_057 (a) ¹
Pazufloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Pefloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Pipemidic Acid	n.d.	µg/Kg	PM DE01_057 (a) ¹
Sarafloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹
Sparfloxacin	n.d.	µg/Kg	PM DE01_057 (a) ¹

n.d. - not detected < limit of quantification 2 µg/kg

(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) Inhouse procedure

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Interpretation:

Regarding the examined parameters and the mentioned limit of quantification the sample corresponds to the legal regulations (regulation (EC) 470/2009 in conjunction with regulation (EU) 37/2010 (dated Feb. 9th 2010)).



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Page 5 of 12

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Sampling done by : Sample not drawn by Intertek

Test required : Chemical & GMO Test

SAMPLE TESTED AS RECEIVED

Reporting code: FS/CR/APS;

TEST RESULTS**Screening for specific marker - rice syrup by LC-MS/MS (SM-R)***

Parameters	Result	Unit	Method
SM-R (rice syrup)	negative		PM DE01_190 (a) 1

(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) Inhouse procedure
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Interpretation:

The result does not indicate an unauthorized addition of rice syrup in the investigated honey sample.



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SAMPLE TESTED AS RECEIVED

Reporting code: FS/CR/APS;

TEST RESULTS

Trace marker - rice syrup (TM-R)*

Parameters	Result	Unit	Method
TM-R	n.d.	ppbw	PM DE01_018 (a) 1
Detection limit: 15 ppbw			
(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method.			
(1) EN 15763 mod.; DIN EN ISO 17294-2 mod.			
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Interpretation:

An unauthorized addition of rice syrup was not detected in the investigated sample.



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Test required : Chemical & GMO Test

SAMPLE TESTED AS RECEIVED

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TEST RESULTS

Determination of honey-foreign oligosaccharides by LC-ELSD*

Parameters	Result	Unit	Method
Foreign oligosaccharides	n.d.	%	LC-ELSD (a)
n.a.: not analyzed; n.d.: not detectable < limit of quantification (LOQ), LOQ: 0.1 %;			
Reported value represents foreign oligosaccharides with a degree of polymerization > 4			
SPECIFICATIONS OF PURE HONEY: foreign oligosaccharides: n.d.			
(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method.			
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Interpretation:

Honey-foreign oligosaccharides were not detected in the investigated honey sample. Therefore, the sample meets the requirements for pure honey in this respect (Council Directive 2001/110/EC from 20/12/2001).



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Test required : Chemical & GMO Test

SAMPLE TESTED AS RECEIVED

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TEST RESULTS

Detection of thermoresistant enzymes*

Parameters	Result	Unit	Method
Diastase activity	15.2	DZ	PM DE01_090 (a) 1
Diastase activity (after heat treatment)	n.d.	DZ	PM DE01_090 mod. (a) 2
n.d. - not detected < limit of quantification (LOQ) 0.1 DZ			
Heat treatment: 100 degrees Celsius, 30 min.			
(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) Inhouse procedure			
(2) Inhouse procedure			
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Interpretation:

No thermoresistant enzymes were detected in the investigated sample. Regarding the examined parameter the sample corresponds to the legal regulations. (Honey directive 2001/110/EC dated Dec. 20th, 2001; Article 1 in connection with Annex II)



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TEST RESULTS

13C Isotope Analysis by EA/LC (C4/C3-Sugars) **

Parameter	Result	Unit	Method
Protein*	-26.00	d13C(‰)	PM DE01_026 (a) 1
Honey	-25.70	d13C(‰)	PM DE01_026 (a) 1
Fructose (F)	-25.52	d13C(‰)	PM DE01_094 (a) 2
Glucose (G)	-25.60	d13C(‰)	PM DE01_094 (a) 2
Disaccharides	-27.12	d13C(‰)	PM DE01_094 (a) 2
Trisaccharides	-25.36	d13C(‰)	PM DE01_094 (a) 2
Oligosaccharides	n.a.	d13C(‰)	PM DE01_094 (a) 2
Delta d13C (F-G)	0.08	d13C(‰)	PM DE01_094 (a) 2
Delta d13C (max.)	-1.76	d13C(‰)	PM DE01_094 (a) 2
C4 Sugar Content	1.80	%	PM DE01_026 (a) 1
F/G Ratio	1.18		PM DE01_094 (a) 2
Portion of Disaccharides	9.40	%	PM DE01_094 (a) 3
Portion of Trisaccharides	0.75	%	PM DE01_094 (a) 3
Portion of Oligosaccharides	n.d.	%	PM DE01_094 (a) 3

LC-IRMS is not an official method for F/G ratio; n.a.: not analyzed; n.d.: not detected < 0.7 %;
d13C value in permil. vs. V-PDB standard* not considered for Delta d13C (max.) calculation if affected by high yeast content
(Yeast determination from Delta d13C (max.) >= 2.1 ‰ on)

SPECIFICATIONS OF PURE HONEY:

Delta d13C (F - G): not more than +/- 1 ‰

Delta d13C (max.) of individual d13C values: not more than +/- 2.1 ‰

C4 sugar content: < 7 %; portion of oligosaccharides: n.d.

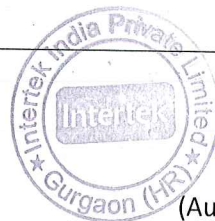
(a): accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) AOAC 998.12

(2) Apidologie 39/5 (2008) 574-587 (3) Apidologie 39/5 (2008) 574-587; % related to total sugars.

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Interpretation:-

The sample meets the specifications of pure honey. Foreign sugars were not detected.

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TEST RESULTS

Pollen - botanical and geographical origin*

Parameter	Description	Result	Method
Yeast content – estimated	increased (>500,000/10g)		PM DE01_040 (a)
Starch content_acc. to pollen content	n.d.(< 1%)		PM DE01_037 (a) ¹
Colour	light amber, cloudy		PM DE01_108 (a) ²
Consistency	starting crystallisation		PM DE01_108 (a) ²
Odour	typical for honey		PM DE01_108 (a) ²
Taste	sweet, caramellike, spicy		PM DE01_108 (a) ²
Honeydew elements	crystalline matter, spores		PM DE01_108 (a) ²
Other Sediment	pieces of dirt, brown sediment, slightly source-specific		PM DE01_108 (a) ²
Electr. Conductivity		0.84 mS/cm	PM DE01_042 (a) ³
Accomp. Pollen (>15%)	Eucalyptus-T, Myrtaceae, Gum-T	37%	DIN 10760 (a)
Accomp. Pollen (>15%)	Lannea-T, Anacardiaceae	23%	DIN 10760 (a)
Accomp. Pollen (>15%)	Cruciferae, Cruciferae, Crucifers	19%	DIN 10760 (a)
Significant isolated pollen(>3%)	Compositae, Daisy Family	4%	DIN 10760 (a)
Isolated pollen	Acanthaceae, Acanthaceae		DIN 10760 (a)
Isolated pollen	Boraginaceae, Boraginaceae		DIN 10760 (a)
Isolated pollen	Chenopodiaceae, Goosefoot family		DIN 10760 (a)
Isolated pollen	Centaurea jacea-T, Compositae, Knapweed-		DIN 10760 (a)
Isolated pollen	Helianthus-T, Compositae, Sunflower-T		DIN 10760 (a)
Isolated pollen	Convolvulaceae		DIN 10760 (a)
Isolated pollen	Cucumis, Cucurbitaceae, Cucumber, Melon		DIN 10760 (a)
Isolated pollen	Ricinus, Euphorbiaceae, Castor Oil Plant		DIN 10760 (a)
Isolated pollen	Euphorbia, Euphorbiaceae, Spurge		DIN 10760 (a)
Isolated pollen	Gramineae, Gramineae		DIN 10760 (a)
Isolated pollen	Prosopis, Leguminosae, Mesquite		DIN 10760 (a)
Isolated pollen	Vicia-T, Leguminosae, Vetch-T		DIN 10760 (a)
Isolated pollen	Trifolium-T, Leguminosae, Clover-T		DIN 10760 (a)
Isolated pollen	Tinospora, Menispermaceae		DIN 10760 (a)



David

(Authorized Signatory)

DAVID ANTONY

Section In-charge Instrumentation

Intertek India Pvt. Ltd (Food Services)

ISSUED TO

Patanjali Ayurved Ltd., Unit-2
Maharshi Dayanand Gram,
Beside Divya Nursury, Near
Patanjali Yog Peeth, Bahadrapad,
Haridwar-249402

TEST REPORT

Doc. No. IFS/DOC/003_02

LAB REFERENCE No : IFS-161013020

Issue Date : 28/10/2016

Your Ref : PO No: 5500004549

Dated : 10/10/2016

Kind Attn: Mr. Ajay Bhandari

Sample Particulars: Honey (Multiflora)

Page 11 of 12

Sample Registration Date : 13/10/2016

Analysis starting Date : 13/10/2016

Analysis Completion Date: 26/10/2016

Name of the Product : Honey (Multiflora)

Quantity received : Approx 250gm X 2No's in Commercial Pack

Sample details : Batch No.: CP69, Mfg Date: 10/16, Expiry: B.B 12 month of mfg date

Sampling done by : Sample not drawn by Intertek

Test required : Chemical & GMO Test

SAMPLE TESTED AS RECEIVED

Reporting code: FS/CR/APS;

TEST RESULTS

Isolated pollen	Acacia, Mimosaceae, Acacia	DIN 10760 (a)
Isolated pollen	Leucaena-T, Mimosaceae, Wild Tamarind-T	DIN 10760 (a)
Isolated pollen	Dichrostachys, Mimosaceae	DIN 10760 (a)
Isolated pollen	Myrtaceae, Myrtle Family	DIN 10760 (a)
Isolated pollen	Palmae, Palm Family	DIN 10760 (a)
Isolated pollen	Pinaceae, Pinaceae	DIN 10760 (a)
Isolated pollen	Sesamum, Pedaliaceae, Sesame	DIN 10760 (a)
Isolated pollen	Nigella, Ranunculaceae, Fennel Flower	DIN 10760 (a)
Isolated pollen	Sapindaceae, Soapberry Family	DIN 10760 (a)
Isolated pollen	Ailanthus-T, Simaroubaceae, Tree of Heaven	DIN 10760 (a)
Isolated pollen	Solanaceae, Solanaceae	DIN 10760 (a)
Isolated pollen	Umbelliferae, Umbellifers	DIN 10760 (a)
Isolated pollen	Coriandrum, Umbelliferae, Coriander	DIN 10760 (a)
Isolated pollen	Pollen-T unknown	DIN 10760 (a)

T=Type, n.d.= not detected, n.d.(Starch)=<1%, n.a.=not analysed

(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) Inhouse procedure
(2) Inhouse procedure (3) Inhouse procedure

This document may only be reproduced in full. The results given herein apply to the submitted sample only.

Interpretation:

According to the pollen-analysis the above mentioned sample may be called "Blossom Honey". Judging by the analyzed pollen-spectrum, there are no objections to indicating "India" as the regional origin. Therefore, the declaration "India" as the regional origin is permissible (Council Directive 2001/110/EC dated 20/12/2001 in combination with literature). The yeast content can give a hint towards a fermentation or a stopped fermentation.



David

(Authorized Signatory)
DAVID ANTONY

Section In-charge Instrumentation



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Intertek India Pvt. Ltd (Food Services)

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Sampling done by : Sample not drawn by Intertek

Test required : Chemical & GMO Test

SAMPLE TESTED AS RECEIVED

Reporting code: FS/CR/APS;

TEST RESULTS

Sr. No.	Test Parameters	Units of Measurement	Result	Limit of Quantification	Method of testing
GMO					
1.	35S Promoter	%	Not Detected	0.1	RT-PCR
2.	NOS Terminator	%	Not Detected	0.1	RT-PCR

*Subcontracted to Intertek Germany.

Note: The above results pertain only to the sample tested and applicable parameter.

*****END OF TEST REPORT*****



SHAIK TAJUDDIN
(Authorized Signatory)

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