

Client:



**Dabur India Limited**  
**Village-Manakpur**  
**Distt.-Solan (H.P.)**  
**Tehsil Baddi 174101**  
**India**

E-Mail: Intertek Indien

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**Our reference no.** : PI1502230052  
**Product** : Honey  
**Sample description / Batch** : IFS-150218054 Honey Code: DELI141216  
**Sample received on / transported by** : 20.02.2015 via DHL Seal : none  
**Sample temp. when received / stored** : RT Sampling : Client  
**Packaging / Quantity** : Plastic container / ca.200g Start / End of analysis : 23.02.2015 / 24.02.2015

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**ANALYSIS REQUESTED: Chloramphenicol by LC-MS/MS (11010040)**

Parameter	Result	Unit	Method
Chloramphenicol	n.d.	µg/kg	PM DE01_022 (a) <sup>1</sup>
n.d. - not detected < limit of quantification 0.3 µg/kg MRPL (Minimum Required Performance limit) for chloramphenicol = 0.3 µg/kg according to 2003/181/EG dated March 13, 2003			
(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) Inhouse procedure This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

**Interpretation:**

Regarding the examined parameter and with respect to the mentioned limit of quantification and the MRPL of 0.3 µg/kg the sample corresponds to the legal regulations (Regulation (EC) 470/2009 in conjunction with Regulation (EU) 37/2010 (dated Feb. 9th 2010)) and corresponds to the Decision 2003/181/EC dated March 13th, 2003 in connection with the Decision 2005/34/EC dated Jan. 11th, 2005.



Caterina Hünninger  
Responsible Scientist, Certified Food Chemist

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Sample received on / transported by	: 20.02.2015 via DHL	Seal	: none
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**ANALYSIS REQUESTED: Tetracyclines by LC-MS/MS (11010091)**

Parameter	Result	Unit	Method
Oxytetracycline	n.d.	µg/kg	PM DE01_060/116 (a) <sup>1</sup>
Tetracycline	n.d.	µg/kg	PM DE01_060/116 (a) <sup>1</sup>
Chlortetracycline	n.d.	µg/kg	PM DE01_060/116 (a) <sup>1</sup>
Doxycycline	n.d.	µg/kg	PM DE01_060/116 (a) <sup>1</sup>
Demeclocycline	n.d.	µg/kg	PM DE01_060/116 (a) <sup>1</sup>
Methacycline	n.d.	µg/kg	PM DE01_060/116 (a) <sup>1</sup>
Minocycline	n.d.	µg/kg	PM DE01_060/116 (a) <sup>1</sup>

n.d. - not detected < limit of quantification 10 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)). The results are stated as sum of the parent drug and the corresponding 4-Epimer.

**Dr. Ines Möller**  
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Sample received on / transported by	: 20.02.2015 via DHL	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / ca.200g	Start / End of analysis	: 24.02.2015 / 25.02.2015

**ANALYSIS REQUESTED: Nitrofurane Metabolites by LC-MS/MS (11010250)**

Parameter	Result	Unit	Method
AOZ	n.d.	µg/kg	PM DE01_031 (a) <sup>1</sup>
AMAZ	n.d.	µg/kg	PM DE01_031 (a) <sup>1</sup>
AHD	n.d.	µg/kg	PM DE01_031 (a) <sup>1</sup>
SEM	n.d.	µg/kg	PM DE01_031 (a) <sup>1</sup>
n.d. - not detected < 1.0 µg/kg MRPL (Minimum Required Performance Limit) for nitrofurane metabolites = 1.0 µg/kg according to 2003/181/EG from March, 13, 2003			
(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) Inhouse procedure This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

**Interpretation:**

Regarding the examined parameters and considering the above stated limit of quantification as well as the mentioned MRPL of 1 µg/kg the sample corresponds to the legal regulations (Regulation (EC) 470/2009 in conjunction with Regulation (EU) 37/2010 (dated Feb. 9th 2010)) as well as Decision 2003/181/EC dated March 13th, 2003 in connection with the Decision 2005/34/EC dated Jan. 11th, 2005.



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Sample received on / transported by	: 20.02.2015 via DHL	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / ca.200g	Start / End of analysis	: 23.02.2015 / 24.02.2015

**ANALYSIS REQUESTED: Macrolides by LC-MS/MS (11010421)**

Parameter	Result	Unit	Method
Tylosin A	n.d.	µg/kg	PM DE01_059 (a) <sup>1</sup>
Sum Erythromycin A	n.d.	µg/kg	PM DE01_059 (a) <sup>1</sup>
Clindamycin	n.d.	µg/kg	PM DE01_059 (a) <sup>1</sup>
Josamycin	n.d.	µg/kg	PM DE01_059 (a) <sup>1</sup>
Leucomycin (Kitasamycin)	n.d.	µg/kg	PM DE01_059 (a) <sup>1</sup>
Lincomycin	n.d.	µg/kg	PM DE01_059 (a) <sup>1</sup>
Spiramycin	n.d.	µg/kg	PM DE01_059 (a) <sup>1</sup>
Tilmicosin	n.d.	µg/kg	PM DE01_059 (a) <sup>1</sup>
Oleandomycin	n.d.	µg/kg	PM DE01_059 (a) <sup>1</sup>
n.d. - not detected < limit of quantification 10 µg/kg			
(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) Inhouse procedure This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

**Interpretation:**

Regarding the examined parameters and the mentioned limit of quantification the sample corresponds to the legal regulations (German ordinance about maximum residue levels RHmV dated 21/10/1999 in connection with Regulation (EC) 470/2009 in conjunction with regulation (EU) 37/2010 (dated Feb. 9th 2010). The result for tylosin A includes the identified metabolite tylosin B.  
 The result for sum erythromycin A includes the identified metabolite anhydroerythromycin A.



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Sample received on / transported by	: 20.02.2015 via DHL	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / ca.200g	Start / End of analysis	: 23.02.2015 / 24.02.2015

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**ANALYSIS REQUESTED: Fluoroquinolones by LC-MS/MS (11010630)**

Parameter	Result	Unit	Method
Ciprofloxacin	n.d.	µg/kg	PM DE01_057 (a) <sup>1</sup>
Enrofloxacin	n.d.	µg/kg	PM DE01_057 (a) <sup>1</sup>
Norfloxacin	n.d.	µg/kg	PM DE01_057 (a) <sup>1</sup>
Ofloxacin	n.d.	µg/kg	PM DE01_057 (a) <sup>1</sup>

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)).

**Caterina Hünninger**  
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21502250295  
PA156471**Dabur India Limited  
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Sample description / Batch	: <b>IFS-150218054 Honey Code: DELI141216</b>		
Sample received on / transported by	: 20.02.2015 via DHL	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / ca.200g	Start / End of analysis	: 23.02.2015 / 25.02.2015

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**ANALYSIS REQUESTED: Streptomycin by LC-MS/MS (11010820)**

Parameter	Result	Unit	Method
Streptomycin	n.d.	µg/kg	PM DE01_104 (a) <sup>1</sup>
Dihydrostreptomycin	n.d.	µg/kg	PM DE01_104 (a) <sup>1</sup>

n.d. - not detected < 10 µg/kg limit of quantification

(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)).

Dr. Ines Möller  
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Sample received on / transported by	: 20.02.2015 via DHL	Seal	: none
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**ANALYSIS REQUESTED: Sulfonamides and Trimethoprim by LC-MS/MS (11010870)**

Parameter	Result	Unit	Method
Sulfaguanidine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfanilamide	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfacetamide	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Succinylsulfathiazole	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfaphenazole	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfisomidine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfadiazine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfathiazole	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfapyridine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfamerazine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfamethazine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfamer	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfamethoxyipyridazine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfachloropyridazine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfamonomethoxine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfisoxazole	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfamethoxazole	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfadoxine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfaquinoxaline	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfadimethoxine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfabenzamide	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfamoxole	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfaclozine	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfamethizole	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Sulfisozole	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>
Trimethoprim	n.d.	µg/kg	PM DE01_046/084 (a) <sup>1</sup>

n.d. - not detected &lt; limit of quantification 10 µg/kg; n.a. - not analyzed

 (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)).



**Martin Linkogel**  
*Head of Laboratory, Certified Food Chemist*



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Sample received on / transported by	: 20.02.2015 via DHL	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / ca.200g	Start / End of analysis	: 25.02.2015 / 26.02.2015

**ANALYSIS REQUESTED: 13C Isotope Analysis by EA/LC (C4/C3-Sugars) (11011581)**

Parameter	Result	Unit	Method
Protein	-26.60	d13C(‰)	PM DE01_026 (a) <sup>1</sup>
Honey	-26.80	d13C(‰)	PM DE01_026 (a) <sup>1</sup>
Fructose (F)	-26.77	d13C(‰)	PM DE01_094 (a) <sup>2</sup>
Glucose (G)	-26.80	d13C(‰)	PM DE01_094 (a) <sup>2</sup>
Disaccharides	-28.32	d13C(‰)	PM DE01_094 (a) <sup>2</sup>
Trisaccharides	n.a.	d13C(‰)	PM DE01_094 (a) <sup>2</sup>
Oligosaccharides	n.a.	d13C(‰)	PM DE01_094 (a) <sup>2</sup>
Delta d13C (F-G)	0.03	d13C(‰)	PM DE01_094 (a) <sup>2</sup>
Delta d13C (max.)	1.72	d13C(‰)	PM DE01_094 (a) <sup>2</sup>
C4 Sugar Content	0.00	%	PM DE01_026 (a) <sup>1</sup>
F/G Ratio	1.51		PM DE01_094 (a) <sup>2</sup>
Portion of Disaccharides	1.23	%	PM DE01_094 (a) <sup>3</sup>
Portion of Trisaccharides	n.d.	%	PM DE01_094 (a) <sup>3</sup>
Portion of Oligosaccharides	n.d.	%	PM DE01_094 (a) <sup>3</sup>

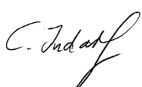
LC-IRMS is not an official method for F/G ratio; n.a.: not analyzed; n.d.: not detected < 0.7 %; d13C value in permil. vs. V-PDB standard

**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.



**Dr. Caroline Indorf**  
*Responsible Scientist, Certified Food Chemist*

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**ANALYSIS REQUESTED: Metronidazole by LC-MS/MS (11010970)**

Parameter	Result	Unit	Method
Metronidazole	n.d.	µg/kg	PM DE01_101 (a) <sup>1</sup>
n.d. - not detected < 1.0 µg/kg limit of quantification			
(a) : accredited under terms of DIN EN ISO/IEC 17025. (na) : not accredited method. (1) Inhouse procedure This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

**Interpretation:**

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



Caterina Hünninger  
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Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / ca.200g	Start / End of analysis	: 24.02.2015 / 25.02.2015

**ANALYSIS REQUESTED: Beta-lactam antibiotics by LC-MS/MS (11014871)**

Parameter	Result	Unit	Method
Amoxicilline	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Ampicilline	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Penicilline V (Phenoxyethyl-)	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Piperacilline	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Penicilline G (Benzyl-)	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Cloxacilline	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Oxacilline	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Dicloxacilline	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Nafcilline	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Cefalexine	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Cefalonium	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Cafazolin	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Cefoperazon	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Ceftiofur	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Cefapirin	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>
Cefquinome	n.d.	µg/kg	PM DE01_132 (a) <sup>1</sup>

n.d. - not detected  
 < 10 µg/kg limit of quantification for all penicillins and cephalosporins (except for cefquinome und cefazolin);  
 < 20 µg/kg limit of quantification for cefquinome und cefazolin

(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 (German ordinance about maximum residue levels RHmV dated 21/10/1999, in connection with Regulation (EC) 470/2009 in conjunction with regulation (EU) 37/2010 (dated Feb. 9th 2010)).



**Martin Linkogel**  
*Head of Laboratory, Certified Food Chemist*