

Customer:

Apinordica AB
Mr. Preben Kristiansen
Hagra 21
SE-590 34 Tjällmo

Sweden

ceralyse

Ceralyse GmbH
Sachverständige für tierische,
pflanzliche, mineralogische
Wachse und Wachsprodukte

Certificate of Analysis : P-3673-01 /23

Sample Number : P-3673-01

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-01

Collection of Sample : Customer

Sample Container : bag of PE


Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-01 PK2023-01	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	14.5 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates no adulterations	
Judgement	The GC-fingerprint and content of total hydrocarbons indicate no adulteration and comply with a pure beeswax.	

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅

20.12.2023

Dr. Ingo Scholz



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Certificate of Analysis : P-3673-02 /23

Sample Number : P-3673-02

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-02

Collection of Sample : Customer

Sample Container : bag of PE

Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-02 PK2023-02	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	14.5 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates no adulterations	
Judgement The GC-fingerprint and content of total hydrocarbons indicate no adulteration and comply with a pure beeswax.		

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅

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Certificate of Analysis : P-3673-03 /23

Sample Number : P-3673-03

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-03

Collection of Sample : Customer

Sample Container : bag of PE

Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-03 PK2023-03	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	14.5 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates no adulterations	
Judgement The GC-fingerprint and content of total hydrocarbons indicate no adulteration and comply with a pure beeswax.		

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅

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Certificate of Analysis : P-3673-04 /23

Sample Number : P-3673-04

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-04

Collection of Sample : Customer

Sample Container : bag of PE


Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-04 PK2023-04	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	15.9 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates minor adulterations with hydrocarbons	
Judgement The content of total hydrocarbons and the GC-Fingerprint do not comply with a pure beeswax. Pure beeswax of a European bee has about 14.0 % - 14.5 % hydrocarbons. This sample could be adulterated with about 1.5 % - 2.0 % hydrocarbons. Hydrocarbons can be paraffin waxes, intermediates and micro-crystalline waxes.		

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅


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Certificate of Analysis : P-3673-05 /23

Sample Number : P-3673-05

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-05

Collection of Sample : Customer

Sample Container : bag of PE


Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-05 PK2023-05	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	15.9 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates minor adulterations with hydrocarbons	
Judgement The content of total hydrocarbons and the GC-Fingerprint do not comply with a pure beeswax. Pure beeswax of a European bee has about 14.0 % - 14.5 % hydrocarbons. This sample could be adulterated with about 1.5 % - 2.0 % hydrocarbons. Hydrocarbons can be paraffin waxes, intermediates and micro-crystalline waxes.		

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅


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Certificate of Analysis : P-3673-06 /23

Sample Number : P-3673-06

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-06

Collection of Sample : Customer

Sample Container : bag of PE

Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-06 PK2023-06	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	15.0 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates no adulterations	
Judgement The GC-fingerprint complies with a pure beeswax and indicates no artificial adulterations. The content of total hydrocarbons is above the target value of max. 14.5 % for pure beeswax of a European bee.		

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅

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Certificate of Analysis : P-3673-07 /23

Sample Number : P-3673-07

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-07

Collection of Sample : Customer

Sample Container : bag of PE

Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-07 PK2023-07	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	15.5 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates no adulterations	
Judgement	The GC-fingerprint complies with a pure beeswax and indicates no artificial adulterations. The content of total hydrocarbons is above the target value of max. 14.5 % for pure beeswax of a European bee.	

The expanded measurement uncertainty of DFG M-V-6 is +/- 0.5 % in total, K2 / U₉₅

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Certificate of Analysis : P-3673-08 /23

Sample Number : P-3673-08

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-08

Collection of Sample : Customer

Sample Container : bag of PE

Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-08 PK2023-08	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	14.9 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates no adulterations	
Judgement The GC-fingerprint complies with a pure beeswax and indicates no artificial adulterations. The content of total hydrocarbons is above the target value of max. 14.5 % for pure beeswax of a European bee.		

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅

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Certificate of Analysis : P-3673-09 /23

Sample Number : P-3673-09

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-09

Collection of Sample : Customer

Sample Container : bag of PE


Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-09 PK2023-09	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	13.8 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates no adulterations	
Judgement The GC-fingerprint and content of total hydrocarbons indicate no adulteration and comply with a pure beeswax.		

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅


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Certificate of Analysis : P-3673-10 /23

Sample Number : P-3673-10

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-10

Collection of Sample : Customer

Sample Container : bag of PE

Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-10 PK2023-10	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	15.5 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates minor adulterations with hydrocarbons	
Judgement The content of total hydrocarbons and the GC-Fingerprint do not comply with a pure beeswax. Pure beeswax of a European bee has about 14.0 % - 14.5 % hydrocarbons. This sample could be adulterated with about 1.0 % - 1.5 % hydrocarbons. Hydrocarbons can be paraffin waxes, intermediates and micro-crystalline waxes.		

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅


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Certificate of Analysis : P-3673-11 /23

Sample Number : P-3673-11

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-11

Collection of Sample : Customer

Sample Container : bag of PE

Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-11 PK2023-11	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	16.0 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates minor adulterations with hydrocarbons	
Judgement The content of total hydrocarbons and the GC-Fingerprint do not comply with a pure beeswax. Pure beeswax of a European bee has about 14.0 % - 14.5 % hydrocarbons. This sample could be adulterated with about 1.5 % - 2.0 % hydrocarbons. Hydrocarbons can be paraffin waxes, intermediates and micro-crystalline waxes.		

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅


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Certificate of Analysis : P-3673-12 /23

Sample Number : P-3673-12

Receipt of Sample : 18.12.2023

Specification of Sample: yellow beeswax
PK2023-12

Collection of Sample : Customer

Sample Container : bag of PE

Sub-Contracts : none

Amount : about 100 g

Remarks : The results only apply to the tested items stated below. It is not allowed to copy parts of this certificate of analysis separately.

Parameter	Value P-3673-12 PK2023-12	Target Value
Total Hydrocarbons DGF M-V-6 (mod.)	15.8 %	≤ 14.5 %
GC-Fingerprint In-House Method	The GC indicates no adulterations	
Judgement	The GC-fingerprint complies with a pure beeswax and indicates no artificial adulterations. The content of total hydrocarbons is above the target value of max. 14.5 % for pure beeswax of a European bee.	

The expanded measurement uncertainty of DGF M-V-6 is +/- 0.5 % in total, K2 / U₉₅

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