



ORGANIC HONEY

07/04/2022

BE-BIO-01
LU/Non-EU Agriculture



HONEY

100 % natural multiflower honey with preservation of all valuable substances. Both the region where the honey is cultivated, as the beekeeping methods of the beekeeper (beehives, different treatments), are conforming to the EU regulation no 834/2007 concerning organic production and is controlled by BE-BIO-01.

Preparation of liquid crystal free honey: quick decrystallisation and filtration of the honey (200 microns) – immediate cooling down with aroma recuperation – filling into new recipients. The honey is ready for use as an ingredient in all kinds of food products. Guarantee of non-crystallisation of minimum 3 months.

Bio guarantee: all steps, from honey harvest to packing are surveyed by certified organisms. Inspected by Certisys BE-BIO-01.

TARGET GROUP

Honey is not suitable for children younger than 12 months.

TYPE

Flower honey	Liquid, light amber coloured honey
Origin	Divers countries: Latin-America and or Asia

QUALITIES

Taste	Mild, typical honey aroma
Refractive index	1,4844 to 1,4993 (in function of the percentage of moisture)
Density	1,398 tot 1,445 (in function of the percentage of moisture and the temperature)
Colour	According to the Pfund colour measuring 34-50 mm extra light amber 50-85 mm light amber
Viscositeit	By 20°C +/- 200 poises By 80°C +/- 2 poises
Preservation	Honey is hygroscopic. Keep recipients closed and at room temperature. No further requirements. Shelf life: 24 months.

IRRADIATION

Meli guarantees that the honey was **not** irradiated.



FYSICO-CHEMICAL ANALYSIS

	<u>Legal standard</u>	<u>Spread</u>
Fructose	-	27,2% to 44,3%
Glucose	-	22,0% to 40,7%
Fructose + Glucose	min 60%	
Sacharose	max. 5%	0,2% to 5%
pH-value	-	3,4 to 5,4
Substances not solvable in water	max. 0,1%	< 0,1%
HMF (hydroxymethylfurfural)	max. 40 mg/kg. Exc. for tropical honey max 80 mg/kg	5 to 40
Amylase	min 8 Schade	8 to 36 Schade
Ash	max. 0,6%	< 0,6%
Moisture	max. 20%	15% to 20%
Free acides	max. 40 milli- equival./kg	5 to 40 meq/kg
Colourings	Not added	-
Flavours	Not added	-
Aromas	Not added	-
Preservatives	Not added	-
a _w value (by 25°C)	-	0,52 to 0,61

NUTRITIONAL VALUE*

Energetic value	1360 kJ – 320 kcal
Proteins	0,5 g
Carbohydrates	79,3g, from which sugars 79,3 g
Fats	0,1g, from which saturated fatty acids 0g
Fibres	< 0,7g
Salt	0.015g (from natural occurring sodium)

*Average per 100g

ANALYSES

Pesticides	The honey is tested chromatographically on the presence of pesticides Conform EU 396/2005, EC 470/2009, EU 37/2010
Antibiotics	The honey is tested on the presence of streptomycins, sulphonamides, tetracyclines, chloramphenicol, macrolides, nitroimidazoles, fluoroquinolones and Nitrofurans (internally):
Maximum limits	streptomycins, sulphonamides, tetracyclines < 10 ppb chloramphenicol < 0,3 ppb Nitrofurans < 1 ppb macrolides (erythromycine, tylosine) < 10 ppb nitroimidazoles <1ppb fluoroquinolones <10ppb
Adulteration	All incoming honey is tested for falsification via NMR
Allergens	No allergens occur in honey. See overview on page 6.



MICROBIOLOGY

There is no danger on itself, because of a large sugar concentration, a low a_w value and a low pH. Handle with care. Remnants exposed to the air can absorb water (honey is hygroscopic), become polluted and ferment.

Clostridium botulinum	<1/g	Total gems	< 100.000 / g
Enterobacteriaceae	< 10/ g	Moulds	< 500 / g
Yeasts	< 500 / g	Salmonella	absent (/25g)

GMO (GENETICALLY MODIFIED ORGANISM)

Following the judgment of the European Court (Case C-442/09, 06.09.2011) regarding the presence of GMO pollen in honey and the amendment of the EU honey directive 2014/63/EU, we have installed the following procedure of analysis since 2011:

qualitative screening (35S-Promoter, NOS-Terminator and Promotor FMV). In case of a negative screening result we classify the honey as marketable and supply this honey. In case of a positive screening result we order a specific testing on non EU-permitted GMOs. In case of a positive result of the aforementioned specific testing, the honey is classified not-marketable and we do not proceed with the supply of this honey.

In case of a positive screening result and a negative result of the specific testing this indicates the presence of a EU-permitted GMO and we therefore classify the honey as marketable and free for delivery.

This procedure is followed stochastically on the batches of incoming raw materials out of several continents.

The representative sample for this analysis sent to the lab is 100g out of a container of 20 Tons. When this sample is conform with the procedure mentioned above, the whole homogenised container will be released as conform and will be used in our products.

We can confirm you that in the period of 2011-2021 we've never detected a not EU permitted GMO pollen in honey.

From the lab who is performing these GMO screenings we've received the information that they only detected in one case (out of 4821 samples) an non EU approved GMO in honey.

Given the fact that all the GMO plants known to be relevant to honey are approved for use in food production and that this is also confirmed in the results of analyses (see above), the risk that a non EU approved pollen can be found in honey is relatively low.

For the reasons stipulated above, we will no longer analyse the honey on GMO as it is no longer a risk.

It is obviously clear that the honey itself is not subject to genetic manipulation, because honey is from animal origin. So we are only talking about the pollen, which are brought to the



beehive by the bees. The possible genetic modified pollen are so a fraction of this fraction and are completely inert, given they cannot be used for reproductive purposes.

As pollen is a natural constituent of honey and is not an ingredient and the level of pollen in honey is only 0.1-0.5%, the proportion of pollens from GMO-plants lies always under 0,9% of the honey, this honey is marketable and does not require a declaration.

Meli cannot guarantee that in the case there is one EU non conform GMO-pollen present in the honey it will be absent in a 20 ton batch raw material and the honey products (container, bucket, jar, stick, bottle, portion,...) produced with this honey.

Signed by Siska Van Poucke, Quality manager

KOSHER & HALAL

Kosher	We hereby declare that the honey processed and commercialised by Meli is 100% natural honey and so kosher.
Halal	All the honey from Meli is conform the following conditions <ol style="list-style-type: none">1. Our product does not contain any other ingredient of animal origin2. Our product does not contain alcohol, and alcohol has not been used in the manufacturing process3. The equipment used for manufacturing, filling and packing this product is not used for the manufacture, filling and packing of other Non-Halal products.4. During manufacture, filling, packing, storage and distribution, our product has not been in contact with Non-Halal foods.



BUCKET 15 KG (EUR PALLET)

ARTICLE NO: NA

Packing	With lid and handle
Material	Polypropylene
Measurements bucket	23.9cm(l)x23.9cm(w)x27.4cm(h)
Net weight	15 kg
Gross weight	15.5 kg
Palletisation	3 layers of 15 buckets = 45 buckets = 675kg
Measurements pallet	0.8m(l)x1.2(w)x0.975m(h)
Complies with the specs	EC 1935/2004 en EU 10/2011
Metal detection	FE 1.5mm – NON FE 1.5mm – RVS 2.5mm (during filling, as well as sieve 3mm)



BUCKET 25 KG (EUR PALLET)

ARTICLE NO: 1024980

Packing	With lid and handle
Material	Polypropylene
Measurements bucket	Diameter 30cm x31cm(h)
Net weight	25 kg
Gross weight	27.75 kg
Palletisation	3 layers of 8 buckets = 24 buckets = 600kg
Measurements pallet	0.8m(l)x1.2(w)x1.11m(h)
Complies with the specs	EC 1935/2004 en EU 10/2011
Metal detection	FE 1.5mm – NON FE 1.5mm – RVS 2.5mm (during filling, as well as sieve 3mm)



CONTAINER WITH STEEL PALLET

ARTICLE NO : 1024929

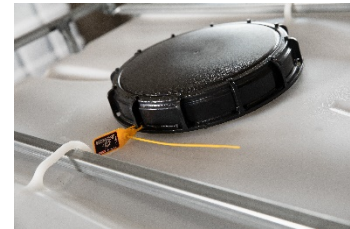
Content	1000 liter maximum
Material	HDPE
Outlet	Tap 2"
Net weight	1000 kg
Gross weight	1059 kg
IBC during transport	IBC is sealed with MELI seal
Complies with the specs	EC 1935/2004 en EU 10/2011
Metal detection	FE 1.5mm – NON FE 1.5mm – RVS 2.5mm (during filling)
Measurements pallet	1000x1200x1200 (H)



CONTAINER WITH STEEL PALLET

ARTICLE NO : 1024931

Content	1400 liter maximum
Material	HDPE
Outlet	Tap 2"
Net weight	1400 kg
Gross weight	1459 kg
IBC during transport	IBC is sealed with MELI seal
Complies with the specs	EC 1935/2004 en EU 10/2011
Metal detection	FE 1.5mm – NON FE 1.5mm – RVS 2.5mm (during filling)
Measurements pallet	1000x1200x1200 (H)



APPENDIX 1 : OVERVIEW OF ALLERGENS

LeDa code	GS1 code	Allergenen in alle honing (wettelijke allergenen) Allergènes dans tous miels (allergènes légal) Allergens in all the honey (legal allergens)	Recept Zonder (Z) (sans/without)	Recept met (M) (avec/with)	Kan Bevatten (en recept zonder) (K) (peut contenir / may contain)	Onbekend (O) (inconnu/unknown)
1.1	UW	Tarwe / Blé / Wheat	x			
1.2	NR	Rogge / Seigle / Rye	x			
1.3	GB	Gerst / Orge / Barley	x			
1.4	GO	Haver / Avoine / Oats	x			
1.5	GS	Spelt / Épeautre / dinkel	x			
1.6	GK	Kamut / kamut / kamut	x			
1	AW	Gluten / Gluten / Gluten	x			
2.0	AC	Schaaldieren / Crustacés / Crustaceans	x			
3.0	AE	Ei / Oeuf / Egg	x			
4.0	AF	Vis / Poisson / Fish	x			
5.0	AP	Aardnoten (pinda's) / Arachide / Peanuts	x			
6.0	AY	Soja / Soja / Soya	x			
7.0	AM	Melk / Lait / Milk	x			
8.1	SA	Amandelen / Amandes / Almond	x			
8.2	SH	Hazelnoten / Noisettes / Hazelnut	x			
8.3	SW	Walnoten / Noix / Walnut	x			
8.4	SC	Cashewnoten / Noix de cajou / Cashew nut	x			
8.5	SP	Pecannoten / Noix de pécan / Pecan nut	x			
8.6	SR	Paranoten / Noix du Brésil / Brazil nuts	x			
8.7	ST	Pistachenoten / Pistache / Pisatchio	x			
8.8	SM	Macademianoten / Noix de macademia / Macadamia nut	x			
8	AN	Noten (schaalvruchten) / Noix / Nuts	x			
9.0	BC	Selderij / Céleri / Celery	x			
10.0	BM	Mosterd / Moutarde / Mustard	x			
11.0	AS	Sesam / Sesam / Seame	x			
12.0	AU	Zwavel dioxide en sulfieten (E220 - E228) in concentraties van meer dan 10 mg/kg of 10 mg/l, uitgedrukt als SO ₂ / Sulfites et dioxyde de soufre / Sulphur dioxide	x			
13.0	NL	Lupine / Lupin / Lupin	x			
14.0	UM	Weekdieren / Mollusques / Molluscs	x			
		Aanvullende allergenen / Additional allergens				
20.0	ML	Lactose / Lactose / Lactose	x			
21.0	NC	Cacao / Cacao / Cacao	x			
22.0	MG	Glutamaat (E620 – E625) / Glutamate / Glutamate	x			
23.0	MK	Kippenvlees / Volailles et dérivés / Chicken meat	x			
24.0	NK	Koriander / Coriandre / Coriander	x			
25.0	NM	Mais / Mais / Corn	x			
26.0	NP	Peulvruchten / Légumineuses / Legumes	x			
27.0	MC	Rundvlees / Bœuf de dérivés / Beef	x			
28.0	MP	Varkensvlees / Porcs et dérivés / Porc	x			
29.0	NW	Wortel / Carottes / Carrot	x			