

Via Stadera 19 - 20141 Milano  
Tel.: +39-02-89557.1 Fax +39-02-89557.390

## CERTIFICATE OF ANALYSIS N.:202000166

## Propolis fluid extract

(Propolis)

CODE:	0226280	
BATCH:	2000080	
DATE OF PRODUCTION:	22/01/2020	
RETEST DATE:	21/01/2023	

PLANT SOURCE:	propolis is not a herb, but a product of the beehive
EXTRACTION SOLVENT:	ethanol 85%

Manufacturer/Supplier: EPO S.r	SPECIFICATIONS	RESULT
Description:	clear liquid	Complies
Colour:	brown	Complies
Odor:	characteristic	Complies
Taste:	characteristic	Complies
Identification test:	complies*	Complies
Assay:total flavonoids as Galangine (spectrophotometric met.)	$\geq 1,0$ % w/w	1,0% w/w
Ethanol content:	78,0 - 82,0 % v/v	78,8% v/v
Density:	0,850 - 0,900 g/ml	0,867g/ml
Total solids:	6,0 - 10,0 % w/v	6,5% w/v
pH:	3,5 - 6,0	5,3
Hydrosolubility:	slightly soluble	Complies
Chloramphenicol:	$\leq 0,5$ ppb	Complies
Heavy metals:	$< 20$ ppm (method C Ph. Eur. current edition)	Complies
Lead (ref. Reg. (EC) 1881/2006):	$\leq 3,0$ ppm*	Complies
Cadmium (ref. Reg. (EC) 1881/2006):	$\leq 1,0$ ppm*	Complies
Mercury (rif. Reg. (EC) 1881/2006):	$\leq 0,1$ ppm*	Complies
Pesticides:	complies to Ph. Eur. current edition and Reg. 2005/396/EC and amendments, particularly: Chlorfenvinphos $< 0,01$ ppm Coumaphos $< 0,01$ ppm*	Complies
Aflatoxins:	Aflatoxin B1: $< 2$ ppb* Aflatoxin B1,B2,G1,G2: $< 4$ ppb*	Complies
Benzo(a)pyrene (Reg. (EC) 1881/2006):	$\leq 10$ ppb*	Complies
Sum of Benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene (Reg. (EC) 1881/2006):	$\leq 50$ ppb*	Complies
Microbiological quality (Ref. Ph. Eur. current edition depending on the intended use) Bacterial count (TAMC: ref. 5.1.4, oral use): Yeasts and Moulds (TYMC: ref. 5.1.4, oral use): Pathogens (ref. 5.1.4, oral use):	$\leq 2 \times 10.000$ ufc/g $\leq 2 \times 100$ ufc/g Salmonella: absent in 10 g* Escherichia coli, Staphylococcus aureus: absent in 1 g*	$< 1000$ ufc/g $< 100$ ufc/g Complies
Bile-tolerant gram-negative bacteria (ref. 5.1.4, oral use):	$\leq 100$ cfu/g*	Complies
Boiling point:	ca 80° C	Complies
Flashing point:	18-21° C	Complies

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Note:	CHLORAMPHENICOL: In compliance with Reg. (EU) 37/2010 and (EC) 470/2009 and Decision 2002/994/EC and amendments (Chloramphenicol absent) GMO: Free from GMO (Reg. (EC) 1829/2003 and 1830/2003) BSE/TSE FREE - GLUTEN FREE ALLERGENS: Free from substances or products causing allergies or intolerances (Reg. (EU) 1169/2011 Annex II)	Complies
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(\*) analysis performed on basis of specific autocontrol plan

Analytical methods from Ph. Eur current edition, except where otherwise specified; mentioned Regs. include subs. amendments and updates

**Storage conditions:** store in a well closed container away from moisture and direct sun light

**Handling:** Handle in locations with an adequate system of ventilation to prevent accumulation of vapours in the air that can cause explosive mixtures. Avoid contact between the product and vapours with ignition sources such as open flames, sparks. Take measures to prevent the build up of electrostatic charge.  
Wear protective equipment before use.

Return the origin labelling on each container used for the sampling.

**Intended use:** Raw material for food and cosmetics.

Date : 10/03/2020

Dott.ssa S. Vicentini  
Technical Director