



1560 Sawgrass Corporate Parkway, Sunrise, FL 33323 | Phone: 954-376-6595 | Fax: 866-232-4338

Product Data Sheet

FLAV™ M - Standardized Bee Propolis Flavonoids Brazilian Blend

Manufacturer Code:	FLAV-PF 003 (FLAV™ M)
Product Type:	Pure Extract of Propolis Flavonoids (Bee Glue) obtained by a patented water based extraction method.
Monograph	Internal, modified to DAB 10.
Origin	Manufactured in the United States of America using a blend of premium raw bee propolis from Brazil (types Brown, Green and Red). Raw bee propolis is a resinous substance collected by honeybees (<i>apis mellifera</i> L.) for use in the hive from different trees (botanical origin).
Description	FLAV M is a brown free flowing powder with a characteristic aromatic smell and strong taste of propolis. FLAV has been purified (free of wax and other impurities), and contains all the flavonoids from the resins and balsams in propolis.
Solubility	Ethanol: yes / Oils: no (mixable) / Water: no
Content	FLAV contains not less than 5% flavonoids (50 mg/g), calculated as the total of <i>chrysin</i> , <i>tecto-chrysin</i> , <i>pinocimbrin</i> , <i>galangin</i> a.o. FLAV does not contain alcohol, sugar, starch, wheat, gluten, yeast, milk Lactose), egg, shellfish, artificial preservatives, flavors, dyes and colors.
Identity	HPLC fingerprint-chromatogram in accordance to standard solution.
Assay	Total Flavonoids: not less than 50mg/g (HPLC).
Pharmacology	FLAV has the following properties (tested in vitro and in vivo): anti bacterial effect on upper respiratory tract infections, anti viral effect on influenza Type A, anti inflammation, anti oxidation, immuno-stimulation, dental pulp complaints - and is used in food supplements, natural medicines, cosmetics a.o. in a concentration of approximately 25 to 150 mg (flavonoids).
Toxicology	FLAV has been tested (Magnusson & Kligmann) Sparse contact hypersensitivity was observed. People with known allergies to bee products should avoid usage. LD-50: 5000mg/Kg
Storage	Keep container well closed, protected from light and heat
Expiration	3 years stored by temperature not exceeding 20° C (68° F)
Packing	Available in 3 Kg NSF approved plastic bags for industrial use.



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Tests	Specification	Notes
Dry substances:	Not less than 90%	
Water Content:	Maximum 10%	
Microbiological Panel		
Total counts:	CFU/g $\leq 1 \times 10^4$	
Coliforms (37°C)	CFU/g $\leq 1 \times 10^2$	(random tests)
Coliforms (44°C)	CFU/g $\leq 1 \times 10^2$	(random tests)
Yeast/moulds:	CFU/g $\leq 1 \times 10^3$	(random tests)
Salmonella	Negative	(random tests)
Aflatoxine	less than 1 $\mu\text{g}/\text{Kg}$	(random tests)
Pesticides	less than 1 $\mu\text{g}/\text{g}$	(random tests)
Heavy Metals:		
Arsenic (As)	less than 2 $\mu\text{g}/\text{g}$	(random tests)
Lead (Pb)	less than 5 $\mu\text{g}/\text{g}$	(random tests)
Cadmium (Cd)	less than 2 $\mu\text{g}/\text{g}$	(random tests)
Mercury (Hg)	less than 2 $\mu\text{g}/\text{g}$	(random tests)
ORAC:		
Analyte	Units	Result
ORAC - Lipophilic	$\mu\text{mol TE}/\text{g}$	1,130
ORAC - Hydrophilic	$\mu\text{mol TE}/\text{g}$	729
Total ORAC	$\mu\text{mol TE}/\text{g}$	1,860

Revised

08.17.2011