



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

Product Data Sheet

FLAV™ R - Pure Brazilian Red Bee Propolis Flavonoids

Manufacturer Code:	FLAV-PF 001 (FLAV R)
Product Type:	Pure Extract of Brazilian Bee 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 premium raw Brazilian Red Bee Propolis from the coastal areas of Brazil's Northeast. 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) but mainly from a local mangrove plant called "rabo de bugil" (<i>dalbergia ecastophyllum</i>).
Description	FLAV R is a dark red free flowing powder that may become sticky and hard if temperature raises above 82° F. It has a characteristic aromatic smell and strong taste of propolis. FLAV R 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 R contains not less than 5% flavonoids (50 mg/g), calculated as the total of <i>biochanin A</i> , <i>formononetin</i> , <i>isoliquiritigenin</i> , <i>chrysin</i> , <i>tecto-chrysin</i> , <i>pinocimbrin</i> , <i>galangin</i> a.o.
Identity	HPLC fingerprint-chromatogram in accordance to standard solution.
Assay	Total Flavonoids: not less than 50mg/g (HPLC).
Pharmacology effect	FLAV R has the following properties (tested in vitro and in vivo): anti bacterial 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, foods, a.o. in a concentration of approximately 25 to 150 mg (flavonoids).
Toxicology	People with known allergies to bee products should use with caution. 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	$\mu\text{mol TE}/\text{g}$	1,280
ORAC - Hydrophilic	$\mu\text{mol TE}/\text{g}$	2,260
Total ORAC	$\mu\text{mol TE}/\text{g}$	3,540

Revised

08.19.2011