



IRIS NATURALS INTERNATIONAL

Your Reliable Global Supplier

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TECHNICAL SPECIFICATION

BEE PROPOLIS DRY EXTRACT AT 40%

Product Name: Bee Propolis Dry Extract 40%
Scientific Name: Propolis
Used Part: Bee
Extraction Solvent: Purified water and alcohol
Lot No.: 3000108
Manufacture Date: 01/08/2008
Expiry Date: 01/08/2010
Country of Manufacturing: Brazil
Manufacturing Process: Spray Dryer
ORAC Value: 1,910 umol Te/g

PHYSICAL PROPERTIES	EXPECTED RESULTS	OBTAINED RESULTS
Appearance	Fine powder	Complies
Color	Ochre Yellow	Complies
Odor/ Scent	Characteristic	Complies
CHEMICAL PROPERTIES	EXPECTED RESULTS	OBTAINED RESULTS
Humidity	Max 2.5% m/m	0.96%
Assay Propolis	38-42% m/m	38%
Total ashes	Max 1.5% m/m	1.27%
Ph	3.8-4.6	4.1
Total flavonoids	Min 18 mg/mL	19.9 mg/mL
Antioxidant property	Max 22 Seg	7"71
SOLUBILITY:		
In water	72.6% of soluble material	Partially soluble
In ethanol 70 degrees GL	46.9% of soluble material	Partially soluble
In ethanol 96 degrees GL	37.1% of soluble material	Partially soluble
In propylene glycol	6.8% of soluble material	Partially soluble
MICROBIOLOGICAL CHARACTERISTICS	TECHNICAL SPECIFICATIONS	RESULTS
Bacterias	Max 100 UFC/g	<100 UFC/g
Fungus (Yeast and Mold)	Max 100 UFC/g	<100 UFC/g
PATHOGENS:		
Paenibacillus larvae	Negative	Negative
Salmonella sp	Negative	Negative
Shigella sp	Negative	Negative
ANTIMICROBIAL ACTIVITY 10 mg/ml	TECHNICAL SPECIFICATIONS	RESULTS
Micrococcus luteus ATCC 9341	Positive antimicrobial activity	Positive antimicrobial activity
Staphylococcus aureus ATCC 25923	Positive antimicrobial activity	Positive antimicrobial activity

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Bee Propolis Heavy Metals Analysis:

Parameters	Results	Unit	Methodology	LOQ
Arsenic	<0.5	mg/kg	SMEWW3120 B	0.5
Chrome	ND	mg/kg	SMEWW3120 B	2.3
Lead	ND	mg/kg	SMEWW3120 B	3.0
Nickel	<3.0	mg/kg	SMEWW3120 B	3.0
Sodium	767	mg/kg	SMEWW3120 B	1.5
Zinc	4.01	mg/kg Zn	SMEWW3120 B	1.5

ND < THE LIMIT OF DETECTION
LOQ = QUANTIFICATION LIMIT

Note: Technically, this product contains starch, which is a dry insoluble extract excipient.
But a dry soluble extract excipient (for instance Maltodextrin, etc...) can be added
if client so requires.

STORAGE: Store in a closed container. Keep away from light, heat and humidity.

This is a computer print out of the Certificate of Analysis and is also valid without
signature!