

## Product Data Sheet

### PWE-R Concentrate Propolis Water Extract

Manufacturer Code:	PWE-R-PF001
Product Type:	Pure Water Extract of Propolis Phenolics - CONCENTRATE (Bee Glue)
Monograph	Internal, modified to DAB 10
Origin	Manufactured in the United States of America using pure raw red bee propolis from <u>Brazil</u> . Raw bee propolis is a resinous substance collected by honeybees ( <i>apis mellifera</i> L.) for use in the hive from different trees mainly from <i>Dalbergia ecastophyllum</i> (botanical origin).
Description	PWE-R is a chocolate color opal water solution with a characteristic aromatic smell and light saline taste. PWE-R is filtrated (1 microns), but during storage some natural sedimentation could appear, so it should be shake well before use. For dilution only.
Preservation	PWE-R is preserved by sorbic acid, a natural compound found in bee propolis.
Solubility	Water: yes / Ethanol: yes / Oils: no
Content	PWE-R is to be standardized by recipient labs by dilution in accordance to PhenolicFactory directions based on HPLC tests which calculate the total phenolic acids based on caffeic acid, ferulic acid, cinnamic acid and others. PWE-R contains traces of different flavonoids.
Identity	HPLC fingerprint-chromatogram in accordance to standard solution.
Assay	Total Organic Aromatic Acids (OAA-HPLC)
Pharmacology	PWE-R and its derivative extracts have the following properties: Anti-bacterial, anti viral, effect on influenza Type A, anti inflammation, anti-oxidation, immuno-modulation, dental pulp complaints - and may be used in food, beverages, food supplements, natural medicines, cosmetics and others in concentrations to be determined by PhenolicFactory.
Toxicology	PWE-R has showed no evidence of delayed contact hypersensitivity - but people with known allergies to bee products should use with caution. LD-50: 9000 mg/Kg.
Storage	Keep container well closed, protected from light, heat and freezing temperatures
Expiration	24 months stored by temperature not exceeding 20° C (68° F)



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**Packing** Available in 1 liter ,5 and 15 gallon NSF approved plastic containers for industrial use.

Tests	Results	Reference	Notes
Dry substances:	Not less than 5,5 %		
Density:	0,988 – 1,092 g / ml		
pH:	5 - 7		

#### Microbiological Panel

Total counts:	CFU/g $\leq 1 \times 10^4$		(random tests)
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)

#### Heavy Metals:

Arsenic (As)	less than 2 $\mu\text{g/g}$		(random tests)
Lead (Pb)	less than 5 $\mu\text{g/g}$		(random tests)
Cadmium (Cd)	less than 2 $\mu\text{g/g}$		(random tests)
Aluminum (Al)	less than 5 $\mu\text{g/g}$		(random tests)
Mercury (Hg)	less than 2 $\mu\text{g/g}$		(random tests)

Revised 04.25.2012