

## TECHNICAL DATA

 <p><b>BIONAP</b> BIOACTIVE NATURAL PRODUCTS</p> <p>CONTRADA FURERIA- Z.I. OVEST 95032 PIANO TAVOLA BELPASSO (CT) - ITALY TEL.: +39 0957086560 FAX: +39 095958435 P. IVA: 03325100877 www.bionap.com e-mail: info@bionap.com</p>	<p style="text-align: center;">Product:</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">PURYFLOWER</p>
E-mail: info@bionap.com	Compilation date: 16 <sup>th</sup> October 2024 Last Review: 26 <sup>th</sup> February 2025

## PRODUCT DESCRIPTION

Powder extract of <i>Opuntia ficus-indica</i> flowers	
Code	133
Botanical name	<i>Opuntia ficus-indica</i> (L.)
INCI EU	<i>Opuntia ficus-indica</i> flower extract Maltodextrin
INCI USA	<i>Opuntia ficus-indica</i> flower extract Maltodextrin
INCI CHINA	仙桃仙人掌 (OPUNTIA FICUS-INDICA) 花提取物 麦芽糊精 (Maltodextrin)
CAS Number	<i>Opuntia ficus-indica</i> flower extract (90082-21-6) Maltodextrin (9050-36-6)
EC Number	<i>Opuntia ficus-indica</i> flower extract (290-109-1) Maltodextrin (232-940-4)
Use	Cosmetic ingredient
Recommended usage concentration	1%

## ACTIVE INGREDIENT COMPOSITION

Active ingredients and support	Percentage (w/w)	Method
<i>Isorhamnetin-3-Rutinoside and Der. (%)</i>	≥ 0.3%	HPLC
Support: Maltodextrin		

<b>PHYSICAL-CHEMICAL PROPERTIES</b>	
PARAMETERS	STANDARD VALUES
Form	Powder
Color	Ivory – Sand beige
Smell	Characteristic
Moisture	≤ 5%
Ashes	≤ 4 %
Pesticides	Conform to Reg. EC 396/2005 and subsequent modifications and supplements
pH (2,5 % aqueous solution)	3.0 – 5.0
Solubility	Water Miscible
Residual solvents (ethanol)	Less than 0.2%
Particle size	More than 90% pass 300 micron
<b>MICROBIOLOGICAL SPECIFICATIONS</b>	
PARAMETERS	STANDARD VALUES
PCA – TAMC – Total plate count	≤ 200 cfu 1g/1ml
Yeasts and Moulds – TYMC	≤ 100 cfu 1g/1ml
Enterobacteriaceae – Bile tolerant gram negative bacteria	Absence 1g/1ml
Escherichia coli	Absence 1g/1ml
Pseudomonas aeruginosa	Absence 1g/1ml
Staphylococcus aureus	Absence 1g/1ml
Candida albicans	Absence 1g/1ml

<b>HEAVY METAL</b>	
PARAMETERS	STANDARD VALUES
Arsenic (As)	< 1 ppm
Antimony (Sb)	< 10 ppm
Lead (Pb)	< 3 ppm
Cadmium (Cd)	< 1 ppm
Cobalt (Co)	< 5 ppm
Chromium (Cr)	< 1 ppm
Mercury (Hg)	< 0,1 ppm
Nickel (Ni)	< 10 ppm

<b>TOXICOLOGICAL EVALUATION</b>	
Human Patch Testing on Sensitive Skin	Non-irritating

<b>SHELF LIFE - STORAGE</b>
24 months in the original bag; keep container unopened in cool, dry place

**Note**

The chemical and physical values, olfactory note and color can be change in base of changeableness of natural raw material or by technical improvement.