Pomanox® is a patented (EP1967079) and standardised natural extract of pomegranate whole fruit, supported by multiple published studies.

Pomanox® is produced from pomegranates cultivated in Mediterranean regions of Spain through sustainable farming, under strict quality control of the raw material and with a green and eco-friendly proprietary technology: The Pure-Hydro Process™, based on ultrapure-water-only extraction.

Pure-Hydro Process™ preserves the natural, water-soluble, polyphenolic composition of whole pomegranate fruit and does not extract other non-water-soluble compounds. This avoids potential residual chemicals, fungal toxins or unsafe alkaloids from extraction with organic solvents.

PhytoProof® process of quality control is followed, ensuring purity, potency and identity for every batch.

Pomanox® is a Natural Force for Vital Health

Whole Pomegranate Fruit Extract
Results from several clinical studies investigating the effect of Pomanox® on blood pressure in healthy volunteers, report a consistent lowering of systolic blood pressure (SBP) and diastolic blood pressure (DBP).

### Study Details

<table>
<thead>
<tr>
<th>Study</th>
<th>SBP basal</th>
<th>SBP post</th>
<th>Sig</th>
<th>DBP basal</th>
<th>DBP post</th>
<th>Sig</th>
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<tr>
<td>Tsang C, et al. Journal of Nutritional Science (2012) (7)</td>
<td>136.4 ±2.7</td>
<td>128.9 ±2.6</td>
<td>0.034</td>
<td>80.3 ±2.1</td>
<td>75.5 ±2.3</td>
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<td>Al-Dujaili et al. BES (2012) (9)</td>
<td>123.5 ±4.4</td>
<td>119.6 ±2.4</td>
<td>&lt;0.001</td>
<td>74.9 ±1.8</td>
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<td>Al-Dujaili et al. EC Nutrition 4.8 (2016) (6)</td>
<td>130.6 ±3.6</td>
<td>130.6 ±3.8</td>
<td>0.001</td>
<td>86.3 ±2.7</td>
<td>82.9 ±2.5</td>
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<td>Stockton A, et al. EC Nutrition 2.4. (2015) (3)</td>
<td>120.3 ±2.8</td>
<td>115.6 ±2.7</td>
<td>0.012</td>
<td>80.0 ±2.5</td>
<td>78.3 ±2.4</td>
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<td>Stockton A, et al. EC Nutr Sci. (2017) (6)</td>
<td>116.46 ±1.4</td>
<td>114.22 ±1.2</td>
<td>0.0045</td>
<td>71.54 ±1.1</td>
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</tbody>
</table>

**Mechanism of action**

Pomanox® improves the function of endothelium cells in arteries through an increased activity of endothelial Nitric Oxide Synthase (eNOS) and by favourably counteracting vascular inflammation and oxidative damage.

**Polyphenol-enriched Diet Prevents Coronary Endothelial Dysfunction by Activating the Akt/eNOS Pathway**


**Polyphenol-enriched Diet Prevents Coronary Endothelial Dysfunction by Activating the Akt/eNOS Pathway**


**Pomanox® and blood pressure**

Results from several clinical studies investigating the effect of Pomanox® on blood pressure in healthy volunteers, report a consistent lowering of systolic blood pressure (SBP) and diastolic blood pressure (DBP).
Results from several clinical studies investigating the effect of Pomanox®


**Study**

**Performance & Recovery**

- Less muscle fatigue
- Faster recuperation
- Support of healthy testosterone levels

**Dietary Health**

- Reduction of undesirable microflora
- Increases beneficial Bifidob- and Lactobacillus

**Other Evidence-Based Properties**

- Decreases serum levels of pro-inflammatory cytokines (IL-1β, IL-6, TNF-α and other markers)
- Increases serum level of the anti-inflammatory cytokine IL-10

**Oxidative Stress**

- Reduces LDL oxidation and lipid peroxidation (TBARS)
- Attenuates exercise-induced oxidative stress
- Increases activity of glutathione peroxidase (GSH-px) activity in plasma
- Decreases levels of 8-ox-dG, an indicator of DNA damage

**Conclusions:**

- Double-blind, randomized, placebo-controlled exploratory study. All 29 participants consumed either one Pomegranate Extract (Pomanox) or a placebo capsule daily, after a meal, for 4 weeks. Each capsule of Pomanox contained 716 mg Punicalagins/day. Statistical significance was reached (P < 0.05).
- Clinical Study: Pilot Human Intervention Study: 115mg Punicalagins daily, 28 days. Prepared for publication.
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- Clinical Study conducted by the Department of Exercise Physiology, UCAAM Catholic University of Murcia; 220 mg Punicalagins/day. Treatment duration: 15 days.
- Clinical Study: Punicalagins 80 mg/day for 30 days. 20 participants. Prepared for publication.
- Clinical Study: Double-blind, randomized, placebo-controlled clinical trial: 29 participants consumed either one Punicalagins extract (Pomanox) or a placebo capsule daily, after a meal, for 8 weeks. Each capsule of Pomanox contained 716 mg Punicalagins/day.

**Conclusions:**

- RC ameliorate cardiovascular risk factors, reduce stress levels and improve perceived health-related quality of life. The reduction in salivary cortisol levels may prove beneficial for people suffering from chronic stress (1)

**Conclusions:**

- Double-blind, placebo-controlled parallel group trial. Pomegranate juice (PJ) with Pomanox (300 ml/day containing 1445 mg polyphenols) for 1 week, 24 healthy overweight subjects (mean BMI: 26.7 ± 6.8 kg/m2).
- Conclusions: PJ consumption prior to an acute bout of moderate intensity exercise may elevate blood pressure and exercise-induced oxidative stress in the overweight obese population (3)

**Conclusions:**

- Double-blind, randomized, placebo-controlled study. 28 volunteers at high CVD risk aged between 45 and 60 years with a BMI between 25 and 30 kg/m2, sedentary or moderately active, completed the study and each consumed 500 ml of PJ with Pomanox containing 1685 mg polyphenols for a period of 4 weeks.
- Conclusions: PJ consumption can alleviate key cardiovascular risk factors in overweight obese subjects who might be due to a reduction in both systolic and diastolic BP, possibly through the inhibition of TP53-hypothalamus hypothalamic type-1 enzyme activity as evidenced by the reduction in the corticosterone/insulin ratio. Reduction in insulin resistance was also found (7)

**Conclusions:**

- Clinical Study: Placebo-controlled, repeated measure intervention trial in 55 healthy subjects administered Pomegranate-enriched pomegranate fruit juice (500 mL/day) for 4 weeks. Subjects had a BMI of 28.3±4.1 kg/m2, were sedentary or minimally active and taking no drugs.
- Conclusions: Pomegranate-enriched Pomegranate juice intake attenuates salivary testosterone levels and improves mood and wellbeing in healthy men and women (5)

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- Conclusions: Pomegranate-enriched Pomegranate juice intake attenuates salivary testosterone levels and improves mood and wellbeing in healthy men and women (5)

**Conclusions:**

- Clinical Study: Queen Margaret University (UK): double-blind, randomized, placebo-controlled crossover trial (6 participants, 2 weeks intervention).
- Conclusions: Acute consumption of Punicalagins (2 capsules containing 216mg Punicalagins) can improve aspects of cognitive performance in healthy adults. Compared to placebo, Pomanox significantly increased the accuracy of responses in the picture recognition test and other cognitive tasks. Prepared for publication (70)
PRODUCT FEATURES

- **Name**: Pomanox®, pomegranate fruit extract (Punica granatum L.)
- **Taste**: Astringent
- **Solubility**: Water Soluble up to 100 g/l
- **Dosage**: 80-225 mg punicalagins α + β daily
- **Punicalagin content**: Up to 30% punicalagins by HPLC
- **Antioxidant capacity**: Up to ORAC>5,700 μmol eq. Trolox/g
- **Manufacturing**: Proprietary ultrapure-water extraction (Pure-Hydro Process™)
- **Stability**: Stability assays according to international standards. Thermal stability to pasteurization, baking, etc. and low impact on the final product taste/flavor
- **Safety**: Acute toxicity (LD50); Cardiac toxicity; Fetal toxicity; FET (Fish Embryo Toxicity Test) Toxicity and Teratogenicity. The results were negative (no risk)
- **Efficacy**: Pre-clinical studies, several published academic clinical trials in key health areas, further being prepared for submission

**Summary**

- Organic solvent-free, 100% vegetarian and natural. From pomegranate whole fruits. Patented (EP 1967079). Certified batch to batch consistency
- High content in bioavailable polyphenols that act synergistically. Standardized to Punicalagins α + β
- GMO-free, allergen-free, non-irradiated. Microbiology tests, heavy metals, pesticides, aflatoxins and ochratoxins A content comply with European standards
- Pomanox® is a full spectrum extract with well characterized phenolic profile
- Pomanox® maintains all the healthy properties and the profile of the bioactive compounds present in the whole fruit (juice, seeds, inner membranes, husk), and contains low sugar
- Thanks to water-only Pure-Hydro-Process™ extraction technology, no concerns for residual chemicals or potentially toxic alkaloids pelletierine, methylpelletierine, pseudopelletierine and isopelletierine related to organic solvents extraction
- Supported by several publications and ongoing research
- Easy to use, apply and incorporate. Adaptable formulation to customer requirements

**APPLICATIONS**

- Supplements
- Beverages
- Nutricosmetic
- Nutraceutical
- Food
- Pharma

**Pomanox®**

<table>
<thead>
<tr>
<th>Form</th>
<th>P15</th>
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<th>P30</th>
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<tbody>
<tr>
<td>Punicalagins</td>
<td>&gt; 15%</td>
<td>&gt; 20%</td>
<td>&gt; 30%</td>
</tr>
<tr>
<td>Total phenols</td>
<td>&gt; 32%</td>
<td>&gt; 37%</td>
<td>&gt; 50%</td>
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<tr>
<td>Ellagic Acid</td>
<td>&lt; 8%</td>
<td>&lt; 8%</td>
<td>&lt; 8%</td>
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</table>

**Supplements**


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