



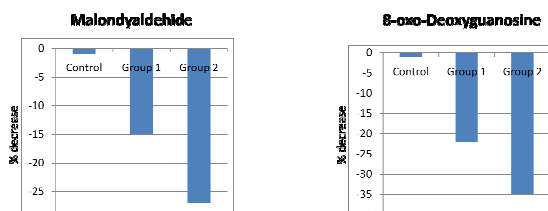
POMEGRANATE DRY EXTRACT

- sb** No Organic Solvents: **WATER EXTRACTION** → preservation of the *Natural Polyphenols*.
- sb** 100% water solubility.
- sb** Punicalagins are the most abundant polyphenols in the fresh fruit.

PARAMETERS	SPECIFICATION
DESCRIPTION	
<i>Appearance</i>	<i>Orange to yellow powder</i>
<i>Botanical name</i>	<i>Punica granatum L.</i>
<i>Part of the plant</i>	<i>Fruit</i>
<i>Extraction solvent</i>	<i>Water</i>
<i>Ratio</i>	<i>90:1</i>
PHYSICO-CHEMICAL	
<i>Loss on drying</i>	≤ 8.0 % w/w
<i>Solubility (in water)</i>	≥ 5.0 %
ASSAY	
<i>Total polyphenols (as gallic acid equivalent) (UV/Vis)</i>	≥ 50.0 %
<i>Punicalagins α and β (HPLC)</i>	≥ 30.0 %
MICROBIOLOGY QUALITY	
<i>Total aerobic microbial count</i>	≤ 10000 CFU/g
<i>Total combined yeasts/moulds count</i>	≤ 100 CFU/g
<i>Bile-tolerant gram negative bacteria</i>	≤ 100 CFU/g
<i>Escherichia coli</i>	Absence 1 g
<i>Salmonella</i>	Absence 25 g

Antioxidant properties

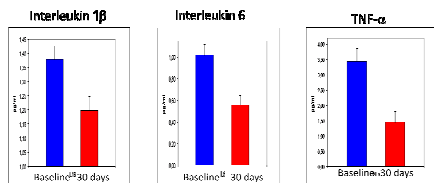
sb Pomegranate extract decreases the quantity of some biomarkers associated with Oxidative Stress



*Double-blind, Placebo-Controlled, Randomised Study of Pomegranate extract
Group 1: 40 mg punicalagins/day; Group 2: 80 mg punicalagins/day
Measurement of MDA and 8-ox-dG in urine*

Anti-inflammatory properties

sb Pomegranate extract decreases the release of some cytokines associated with inflammation



*Double-blind, Placebo-Controlled, Randomised Study of Pomegranate Extract:
40-80 mg punicalagins/day (400 mg of Pomegranate extract 15%)
Measurement of cytokines in plasma (*, p<0.05, **, p<0.01)*

Cardiovascular properties

sb Pomegranate polyphenol metabolites increase the yield of the synthesis of eNOs and, physiologically, this effect is related to the recovery of the endothelial vasodilation, caused by general inflammation and artery hardening.

sb Pomegranate polyphenols exhibit a blood pressure lowering effect.

Pomegranate natural extract: indications / uses

- sb** Skin – care / Anti-Ageing products
- sb** Sport Nutrition products
- sb** Prevention of brain dysfunction or mental underperformance
- sb** Prevention of Osteoarthritis in formulae containing Chondroitine (CH) or Glucosamine (GS)
- sb** Prevention of IBS (Irritation Bowel Syndrome).
- sb** Decrease of Blood Pressure
- sb** Improvement of the circulatory ailments as increases the flexibility of the arteries and veins and therefore the go-and-back blood system: i.e., tired legs syndrome.
- sb** Prevention of hair loss
- sb** Prevention of canities formation