



Delphinol[®]

*Standardised Maqui Berry
Extract, Branded, Patented,
and Safe (GRAS)*



Market Applications

*Displays superior anti-oxidant potency
Promotes well balanced
blood sugar levels
Protects skin cells from
UV radiation*



ANKLAMEXTRAKT

Delphinol® PREMIUM INGREDIENT

Delphinol® is a unique, premium standardised extract of maqui berries exclusively produced by Anklam Extrakt in Germany.

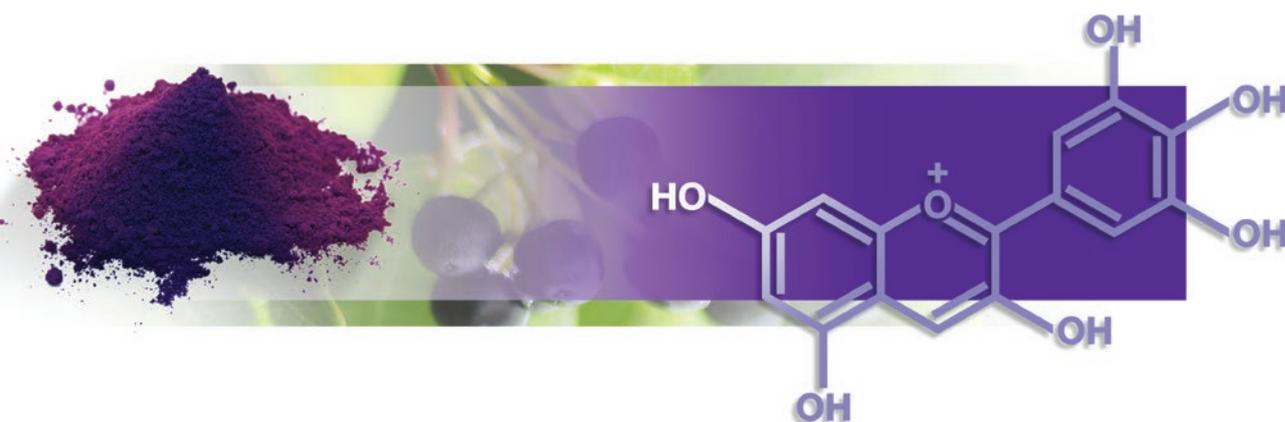


Maqui berry is a native berry that only grows in the wild forests of Patagonia in Chile and Argentina. This berry has been consumed from ancient times by indigenous people and is by nature extraordinarily rich in many nutrients and powerful flavonoid species known as anthocyanins.

A specific category of these flavonoids, known as delphinidins are responsible for the very dark purple color of the berries as well as for several health applications.

Delphinol® QUALITY

- ✓ Delphinol® is prepared from selected fresh maqui berries by water extraction and purification on resin under strict GMP conditions.
- ✓ Delphinol® is the only extract of maqui berry providing rich purified flavonoids and is standardised to bear a minimum of **25% delphinidins** and a minimum of **35% total anthocyanins**.
- ✓ Delphinol® is certified Kosher and Halal.

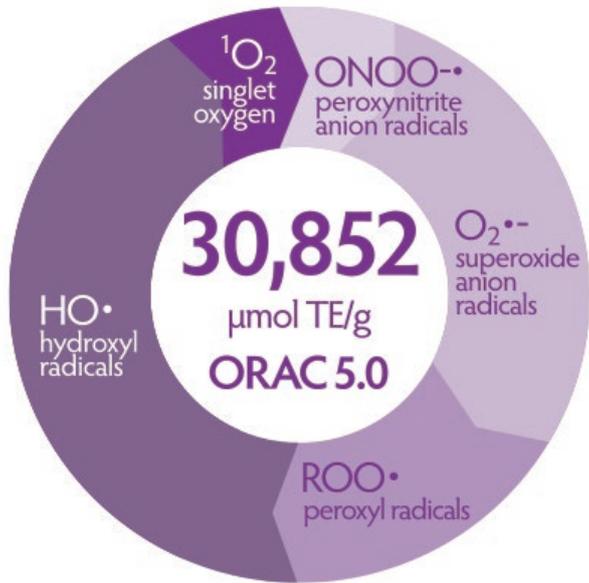


Delphinol® SAFETY

Delphinol® safety investigations have confirmed absence of health risks related to regular consumption of Delphinol®. In the USA, Delphinol® has been affirmed as Generally Recognized As Safe (GRAS).

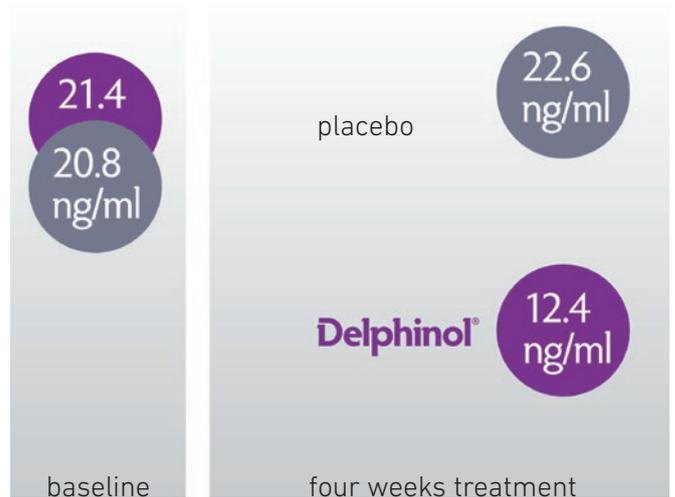
Delphinol® EFFICACY

DELPHINOL® SUPERIOR ANTIOXIDANT POTENCY



Delphinol® presents exceptionally high antioxidant powers, total ORAC 5.0 value of 30,852 $\mu\text{mol TE/g}$, certified by Brunswick Laboratories.

blood plasma concentration of oxidised LDL



In a double-blind, placebo-controlled, cross-over clinical study, Delphinol® significantly decreased oxidised LDL cholesterol in study participants, as compared to placebo treatment [Scapagnini et al., 2014].

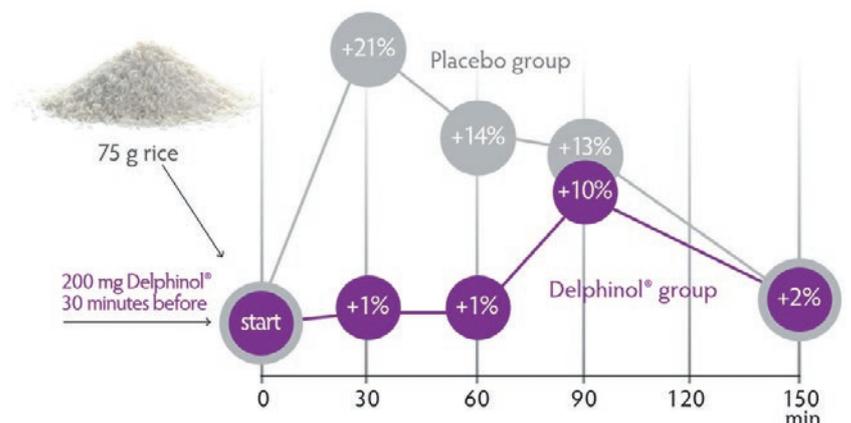
A reduction of oxidised LDL is beneficial because of the known participation in atherosclerosis onset.

DELPHINOL® MAQUI BERRY EXTRACT LOWERS POSTPRANDIAL GLUCOSE

Taking Delphinol® half an hour before consumption of rice resulted in a significantly lowered blood glucose over a period of one hour.

Delphinol® reduces postprandial blood glucose increase in individuals with impaired glucose regulation by novel mechanism of sodium glucose cotransporter inhibition [Hidalgo et al., 2014].

Subsequent relative glucose increase in blood stream



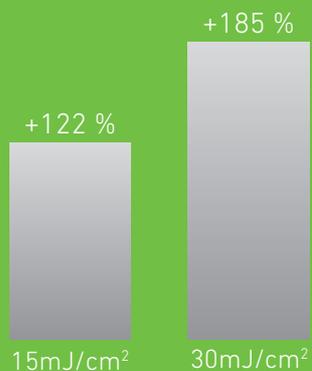
Delphinol® is currently the only known natural active ingredient which moderates absorption of refined carbohydrates with pure glucose.



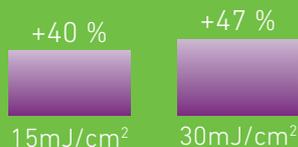
Delphinol® represents an interesting new component for combination product formulations, dedicated to optimal blood sugar control to include the previously unaddressed glucose.

Delphinol® delphinidins protect skin health from UV radiation damage.

Lipid peroxidation increases in unprotected cells exposed to UV light



Lipid peroxidation is diminished in cells protected by delphinidins at concentration of 22mg/L



Delphinidins accumulated inside keratinocytes prevent UV induced lipid peroxidation [Afaq et al., 2007].

References

Afaq F., Syed D.N., Malik A., Hadi N., Sarfaraz S., Kweon M.H., Khan N., Zaid M.A., Mukhtar H. Delphinidin, an anthocyanidin in pigmented fruits and vegetables, protects human HaCaT keratinocytes and mouse skin against UVB-mediated oxidative stress and apoptosis. *Journal of Investigative Dermatology*, Volume 127, 2007.

Hidalgo J., Flores C., Hidalgo M.A., Perez M., Yañez A., Quiñones L., Caceres D.D., Burgos R.A. Delphinol® standardized maqui berry extract reduces postprandial blood glucose increase in individuals with impaired glucose regulation by novel mechanism of sodium glucose cotransporter inhibition. *Panminerva Med*, 56 (Suppl. 3 to No. 2) :1-7, 2014.

Scapagnini, G., Davinelli S., Zarrelli A. Healthy property of maqui berry extract. *Approaches to Aging Control*, Vol. 18, 2014.

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