



Delphinol[®]

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



Market Applications

*Promotes a Balanced Modern Lifestyle
Displays Superior Antioxidant Potency
Supports Bone Health*



ANKLAMEXTRAKT

Delphinol® PREMIUM INGREDIENT

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

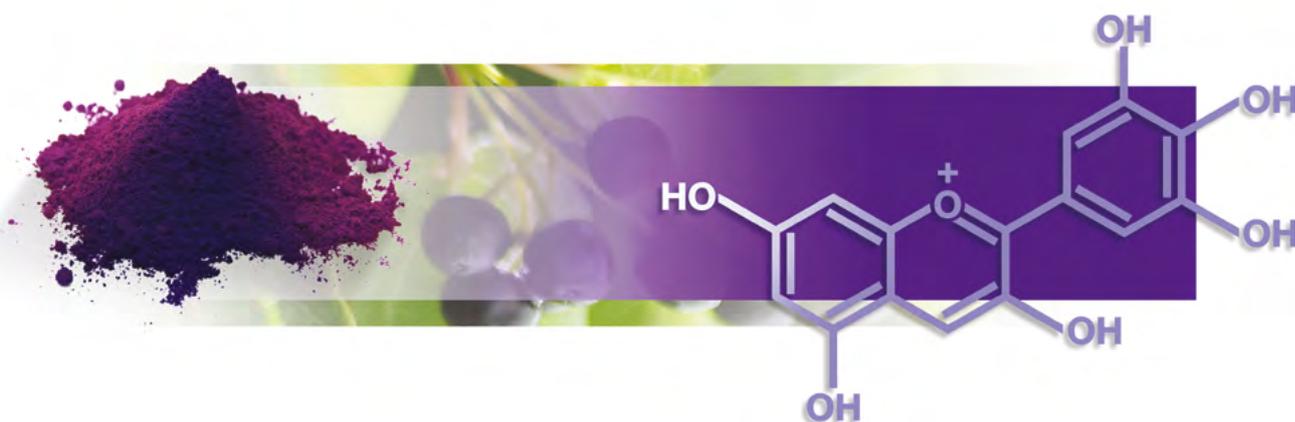


Maqui berry is a native berry that only grows in the wild forests of Patagonia in Chile and Argentina. This berry has been consumed from ancient times by indigenous people and is by nature extraordinarily rich in many nutrients and powerful flavonoid species known as anthocyanins.

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

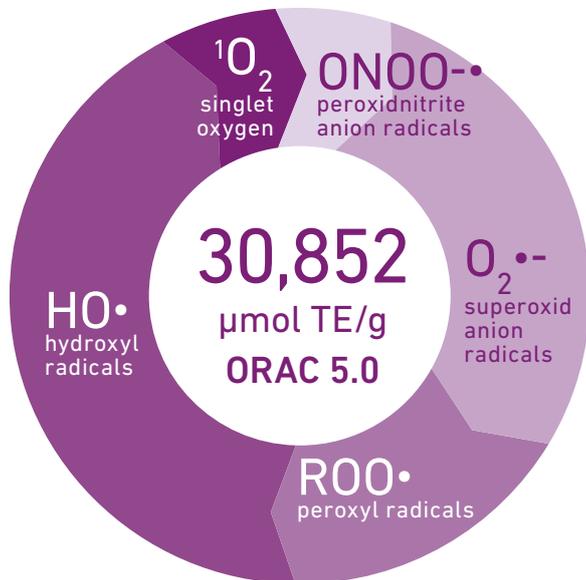
- ✓ Delphinol® is prepared from selected fresh maqui berries by water extraction and purification on resin under strict GMP conditions.
- ✓ Delphinol® is a maqui berry extract providing rich purified flavonoids, standardized to bear a minimum of **25% delphinidins** and a minimum of **35% total anthocyanins**.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



Delphinol® SAFETY

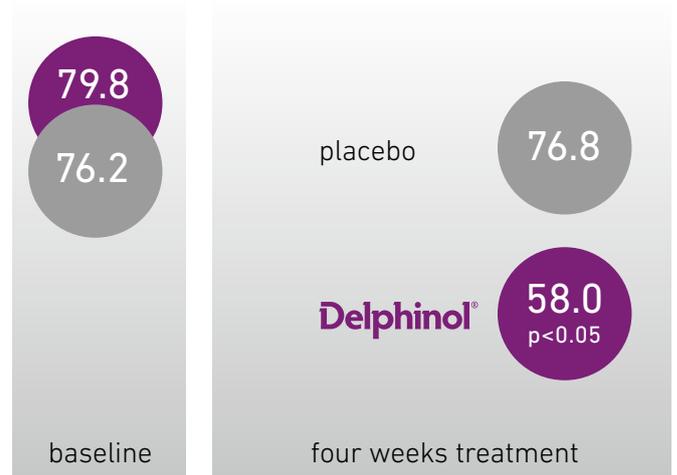
Delphinol® safety investigations have confirmed absence of health risks related to regular consumption of Delphinol®. In the USA, Delphinol® has been affirmed as Generally Recognized As Safe (GRAS).

DELPHINOL® SUPERIOR ANTIOXIDANT POTENCY



Delphinol® presents exceptionally high anti-oxidant power, total ORAC 5.0 value of 30,852 µmol TE/g, certified by Brunswick Laboratories.

blood plasma concentration of oxidized LDL [U/L]



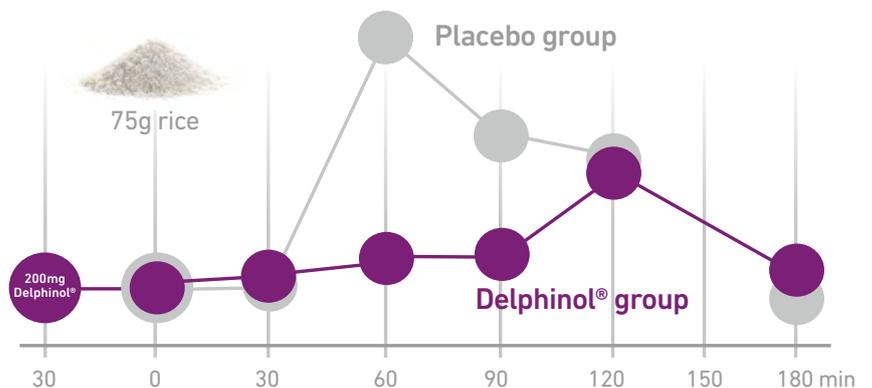
In a randomized, double-blind, placebo-controlled clinical study, Delphinol® significantly decreased oxidized LDL cholesterol in study participants, as compared to placebo treatment. A reduction of oxidized LDL is beneficial because of the known participation in atherosclerosis onset.

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



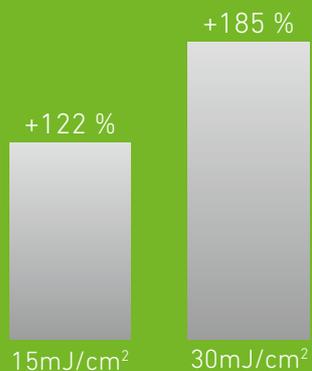
Delphinol® is currently the only known natural active ingredient which moderates absorption of refined carbohydrates with pure glucose.

STARCHY FOOD ITEMS	REFINED SUGARS
	
✓ Delphinol® ✓ OPCs (grape seed, cocoa etc.)	✓ Delphinol® ✗ OPCs

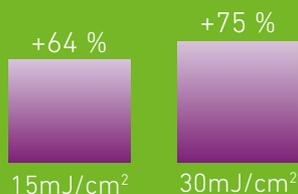
Delphinol® represents an interesting new component for combination product formulations, dedicated to optimal blood sugar control to include the previously unaddressed glucose.

Delphinol® delphinidins act as an antioxidant in skin cells affected by UV radiation.

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.

Davinelli S, Bertoglio JC, Zarrelli A, Pina R, Scapagnini G. A Randomized Clinical Trial Evaluating the Efficacy of an Anthocyanin-Maqui Berry Extract (Delphinol®) on Oxidative Stress Biomarkers. *J Am Coll Nutr*, 34 Suppl 1:28-33, 2015.

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