

Blackcurrant

(Blackcurrant Extract)

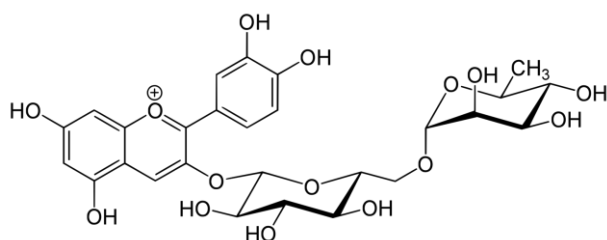


Scientific name	: <i>Ribes nigrum</i>
Family name	: Grossulariaceae
Other name	: Cassis
Origin	: Europe, North America, New Zealand
Characteristic component	: Anthocyanin (<i>Cyanidin-3-rutinoside, Delphinidin-3-rutinoside etc.</i>)

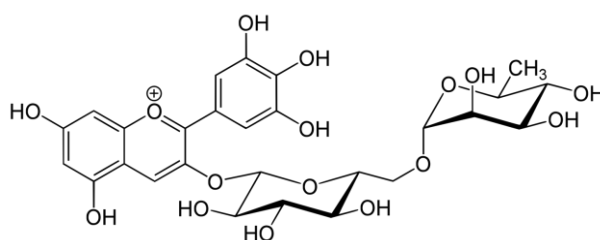
The features of Tokiwa's Blackcurrant

Specification: no less than **35%** of Anthocyanin

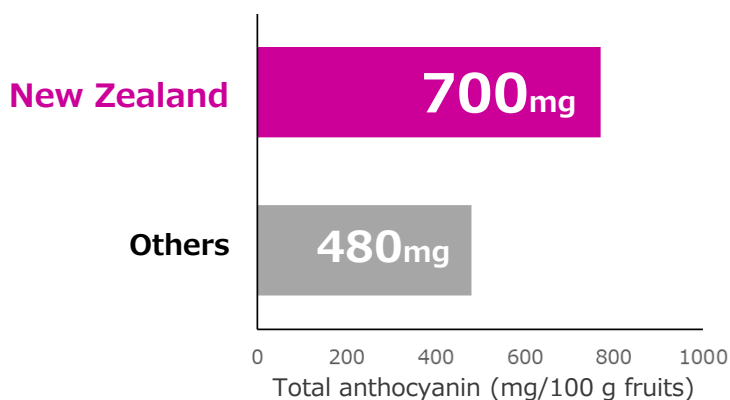
Anthocyanins not found in other type of berries



Cyanidin-3-rutinoside



Delphinidin-3-rutinoside



- Made with **100%** of high-quality blackcurrants from **New Zealand**
- **Higher total anthocyanin** contents compared to blackcurrants harvested from other regions

Recommended dose

50-200 mg/day
150 mg/day for cognitive improvement

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Safety

Method

Ames test

Acute toxicity (mouse)

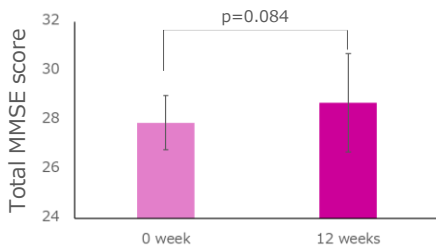
Results

Negative

LD₅₀ ≥ 2000 mg/kg

In-house test

Cognitive Improvement



Mini Mental State Examination

Questionnaire to evaluate:

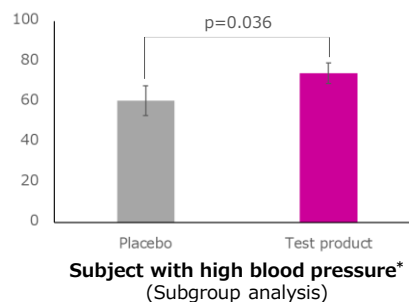
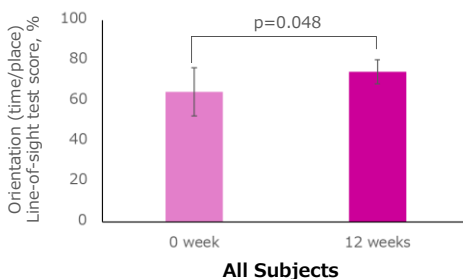
¹)Orientation, ²)Registration, ³)Attention, ⁴)Calculation, ⁵)Recall, ⁶)Naming, ⁷)Repetition, ⁸)3-stage command, ⁹)Reading, ¹⁰)Writing, and ¹¹)Copying

- **Inclination to improve total MMSE score in 12 weeks**

Line-of Sight Test

- Rapid cognitive assessment using an eye-tracking system.
- Evaluates: ¹)Memory, ²)Attention, ³)Language, ⁴)Visuospatial cognition, and ⁵)Orientation (time/place)

- **Significantly improves score of Line-of-Sight test**
(Item: time/place orientation recognition)



* Midlife people with high blood pressure have higher risk of developing cognitive function problem

Tokiwa's Blackcurrant extract improves cognitive functions

Intern Med 53:2447-2453 (2014); Sci Rep 9(1):12932 (2019); Stroke 37(1):33-7 (2006)

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