

BERRY RADICAL™ FACT SHEET



Hello Lovely People!
With so many questions about this awesome product I have decided to put together this resource full of all the wonderful properties of Berry Radical.

Enjoy!

Narelle

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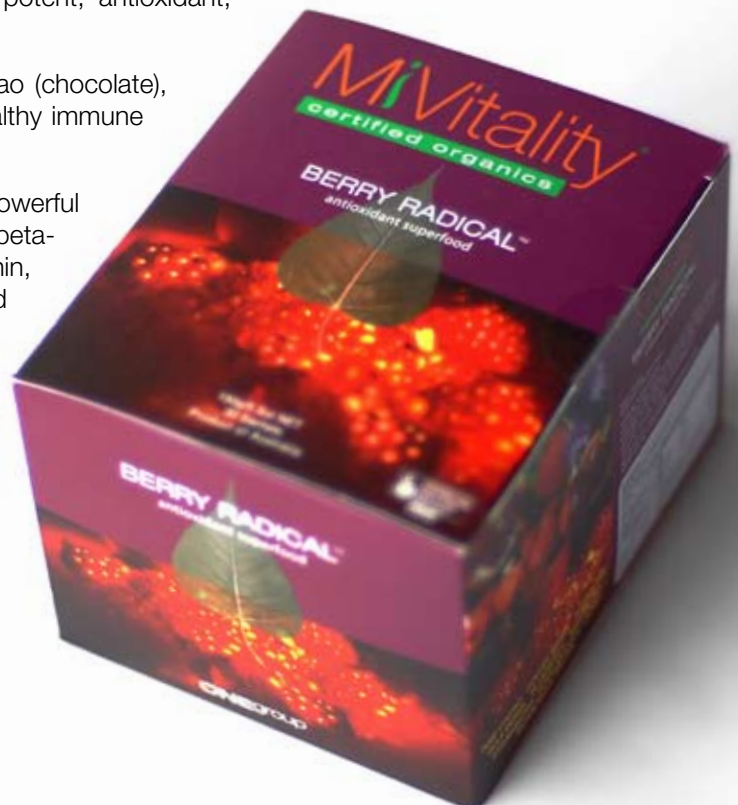
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What Is Berry Radical?

Today's fast-food society and nutrient deficient soils makes it difficult, if not impossible, to obtain the quality and concentrations of daily nutrients necessary to positively impact our health. Berry Radical is a revolutionary organic, superfood, designed to assist the body in attaining vibrant health, wellbeing and longevity. The ingredients in Berry Radical have been proven to assist the body in neutralising free radical damage. Make a super-nutritious beverage by blending Berry Radical with hot water and rice or soy milk. Sweeten to taste. Add to your favourite smoothie recipe to supercharge it! Dairy milk should be avoided with Berry Radical, as research has shown that the casein in dairy milk blocks the beneficial vascular effects of the antioxidants.

Berry Radical: The certified organic, antioxidant superfood

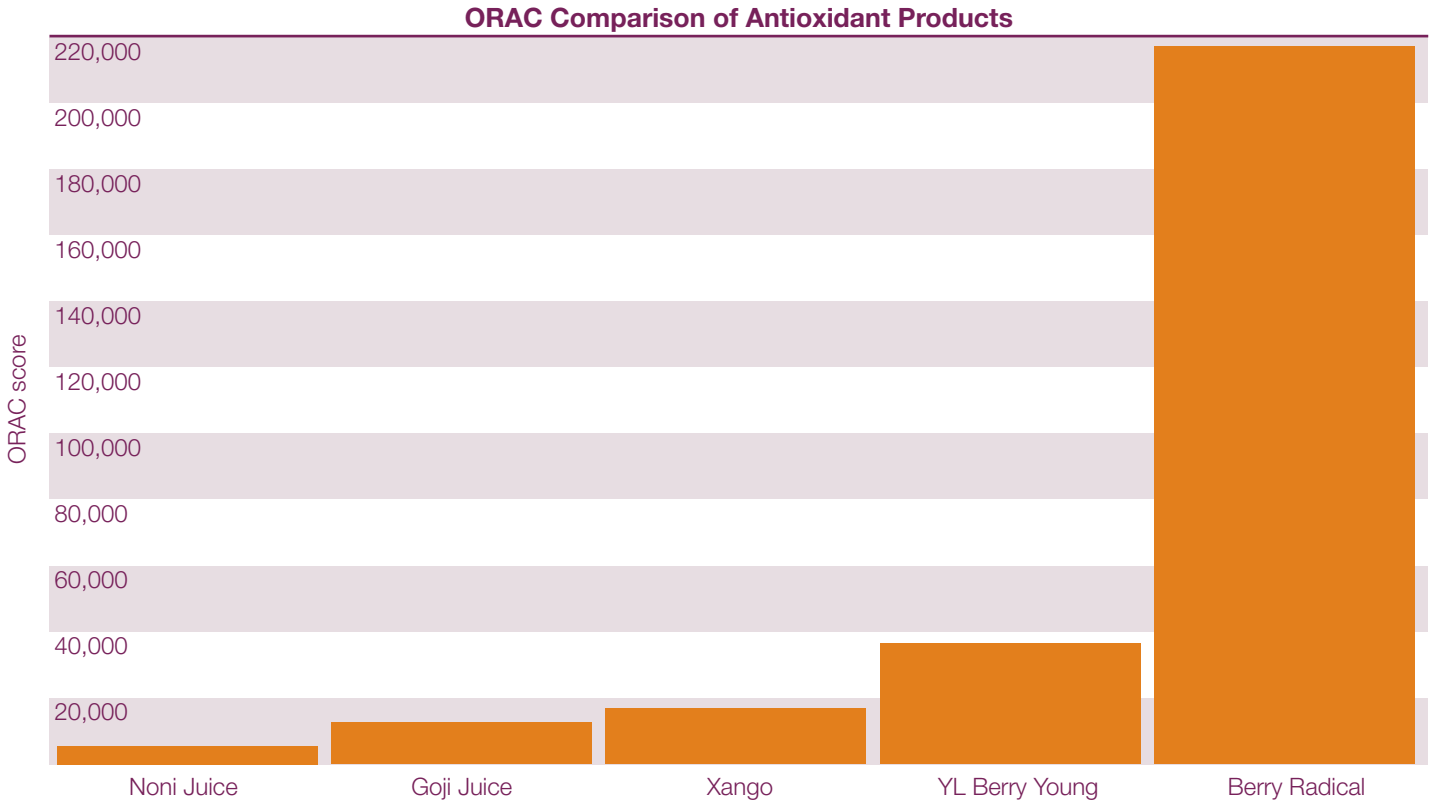
- A potent combination of 10 of the worlds most potent, antioxidant, superfoods.
- Contains certified organic, antioxidant-rich raw cacao (chocolate), fruits, berries and marine microalgae to support healthy immune function and protect cells.
- Contains a wide spectrum of nature's most powerful antioxidants: hydroxytyrosol, zeaxanthin, alpha and beta-carotene, lutein, lycopene, anthocyanin, cryptoxanthin, xanthophyll, epicatechin, quercetin, punicalagins and ellagic, chlorogenic, gallic, ferulic and caffeic acids from organically grown chocolate, berries, fruits
- Helps quench damaging free radicals in the body.
- May slow processes associated with aging.
- Supports healthy immune function.



We asked Brunswick Laboratories to put Berry Radical through it's paces and see how it performed. Brunswick Labs is recognised internationally by leading health research institutions and companies in the nutraceutical, pharmaceutical, food and cosmetic industries, as a world leader in research and diagnostic services related to antioxidants and oxidative stress.

Berry Radical vs. Other Sources of Antioxidants

We compared the antioxidant power of Berry Radical to some high antioxidant supplements on the market. Below is a graph of the results:



Yes, that's right...

One box of Berry Radical contains 217,200 ORAC units!

What Are ORAC Units?

ORAC (Oxygen Radical Absorbance Capacity), is a standardised measurement of the total antioxidant power of a substance. [Click here For more info on ORAC Units](#)

See the ORAC score per serving in the table below:

Supplement	ORAC Score per Serving	Additional information about the product
Tahitian Noni Juice 30ml	165	Reconstituted concentrate
Himalayan Goji Juice 30ml	380	Preserved with sodium benzoate and potassium benzoate Reconstituted from concentrates
Xango 30ml	530	Preserved with potassium sorbate and sodium benzoate Reconstituted from concentrates
YL Berry Young 30ml	1130	Preserved with potassium sorbate and sodium benzoate Reconstituted from concentrates
Berry Radical 5g sachet	7240	Certified organic, freeze-dried, raw, living fruits, berries and cacao (chococolate) Preservative-free

We compared the antioxidant power of Berry Radical to some high antioxidant foods and supplements and ascertained how much you'd have to buy to get the equivalent amount of ORAC units in one box of Berry Radical:

Foods	Supplements
9 kilos of blueberries @ ~\$500	6 bottles of YL Berry Young @ US \$324
14 kilos of strawberries @ ~\$220	12 bottles of Xango Mangosteen juice @ US \$480
17 kilos of raspberries @ ~\$840	17 bottles of Himalayan Goji juice @ US\$ 893
	41 bottles of Tahitian Noni juice @ US \$1727

What Are Free Radicals And Why Do We Need Antioxidants?

Oxidation occurs when free radicals (highly reactive, high-energy particles) ricochet wildly throughout the body and damage cells. Free radicals can be produced within the body by natural biological processes or introduced from outside via tobacco smoke, toxins, pollutants and sub-optimal eating habits. Free radicals are believed to accelerate the progression of cancer, cardiovascular disease, rheumatoid arthritis, chronic fatigue, and age-related diseases. Antioxidants found in fruits and vegetables help to neutralise free radicals in our bodies.

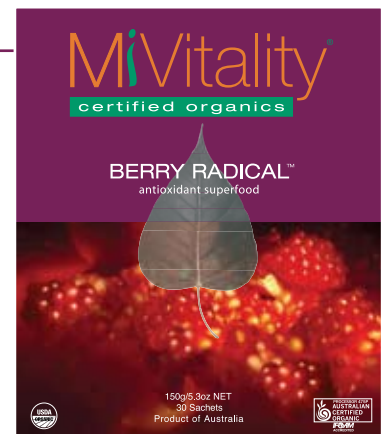
Australian's are encouraged to eat 7 serves of fruit and vegetables a day. Specifically, 2 serves of fruit and 5 serves of vegetables each day. Many people struggle to eat the recommended amounts of fruits and vegetables each day. Within Australia, only 14% of men and 21% of women report eating the recommended four or more servings of vegetables daily.

Why Do Plants Contain Antioxidants?

Photosynthesis is the process whereby plants convert light energy from the sun into stored physical energy. Photosynthesis exposes plants to a massive number of free radicals. Plants produce antioxidants to protect themselves from damage by these free radicals. Antioxidant plant pigments, primarily carotenoids and polyphenols that are responsible for the bright colours of many orange, red, blue and purple fruits, berries and algae, provide most of this protection. Research has shown that human ingestion of these plant-based antioxidants result in similar protection. Research also shows that antioxidants work synergistically (where the combined effect is greater than the sum of the individual effects) and are far more effective when a spectrum of antioxidants are ingested, rather than individual isolated compounds.

Why Did You Make A Powder Instead Of A Juice?

By utilising raw, freeze-dried powders we have concentrated all the nutrition from the fruits and berries into a much more potent, nutrient dense form. Which is why 1 box of berry radical is equivalent to 12 bottles of mangosteen juice 17 bottles of goji juice and 41 bottles of noni juice, in terms of antioxidant capacity. Our organic fruit and berry powders are highly concentrated foods, with all the nutrients and enzymes in the fresh fruit. Only water has been removed. Gram for gram, powders are far more potent and concentrated than water-down juices. Many fruits are more than 90 percent water, which mean you get at least 10 times the nutrients in a freeze-dried fruit than the fresh fruit or a rehydrated juice. Powders do not require the preservatives that juices do. The freeze drying process does not kill the enzymes. It puts them in a state of suspended animation. They are brought back to life by adding the Berry Radical to liquid.



How Much Caffeine Does Berry Radical Contain?

Interesting research on caffeine in the field of homeopathy indicates caffeine's stimulating effect when cooked, but not when eaten raw. One experiment conducted with a decoction of roasted ground cacao beans in boiling water produced an excitement of the nervous system similar to that caused by black coffee and an excited state of circulation, demonstrated by an accelerated pulse. Notably, when the same decoction was made with raw, unroasted cacao beans neither effect was noticeable.

A cup of tea contains an average of 40mg of caffeine, compared to 85mg as found in a cup of freshly brewed coffee. A cup of hot chocolate usually contains about 4 or 5 milligrams of caffeine, which is about 1/20 that of a cup of regular coffee. A serving of Berry Radical contains about 6mg of caffeine, about as much as in a hot chocolate, but considering the coffee berry and cacao in Berry Radical are both raw, there will be no stimulant effect.

Food vs Supplements

If you're supplementing with single dose antioxidants, or a combination of a few isolated antioxidant nutrients, you may not be getting the benefits you hoped for.

Whilst isolated nutrients may have powerful antioxidant benefits in vitro (test tube) they rarely have significant benefits in vivo (humans). Whereas foods high in antioxidants have proven benefits in both humans and in vitro. It is known that a diet rich in fruits and vegetables can help prevent cancers, coronary heart disease and strokes. Synthetic antioxidants appear to be so ineffective that they may actually increase cancer risk. In fact, every large clinical trial that has used isolated antioxidant nutrients has failed to show benefit for cancer and cardiovascular disease. 61,62,63,64

Most isolated antioxidant nutrients are chemically, and structurally, different to those found in foods; and do not have the desired effect in the human body. Research has found that whole tomato powder but not lycopene, a carotenoid found in tomatoes, inhibited prostate carcinogenesis in rats, which demonstrates the superior functionality and efficacy of whole-food nutrition compared with high dose, isolated nutrient, supplementation. 65

What Are ORAC Units And How Many Do We Need?

ORAC, short for Oxygen Radical Absorbance Capacity, is a standardised measurement of the total antioxidant power of a substance. Antioxidant power is the ability to neutralize oxygen free radicals. The more free radicals a substance can absorb, the higher it's ORAC score. Nutritionists recommend that we consume around 5000 ORAC units per day to significantly impact antioxidant activity in the body and reduce free radical damage. One serving (half a cup) of fruits or vegetables provides approximately 500 ORAC units. If you're not eating at least 10 servings of fruits and vegetables a day, you're not getting the recommended amount of ORAC units to mop-up the damage caused by free radicals in your body every day. The ORAC (total) score of 1 gram of Berry Radical is 1448. So, one 5g sachet of Berry Radical contains over 7000 ORAC units! One 150g of Berry Radical box contains over 217,000 ORAC units.

Below is the published data of the ORAC score of some high antioxidant foods and supplements:

Food/Supplement	ORAC Score / Serving
100g blueberries	2400
100g strawberries	1540
100g raspberries	1220
30ml YL Berry Young	1130
30ml Xango	530
30ml Himalayan Goji Juice	380
30ml Tahitian Noni Juice	165

NARELLE & COLIN'S RAW SMOOTHIE RECIPE

I'm often asked how I use Berry Radical in my daily life, besides making the scrumptious warm beverage.

We have a super-charged way to start our day; it's our organic, raw, green, smoothie. It's a delicious, nourishing, meal that keeps us going until lunchtime.

- 1 x baby green coconut (juice and flesh)
- ½ cup of fruit of the season (paw paw, mango, peaches, pears, berries)
- 1 x banana
- 1 x handful of goji berries
- 1 x tsp bee pollen granules
- 1 x tsp maca root powder
- 2 x tsp In-Liven
- 1 x sachet Berry Radical
- 1 x tbs spirulina (or chlorella)
- 1 x tbs barley grass (or wheat grass)
- 2 x tbs crushed linseed (or chia seed)
- 1 x big handfull of spinach (or other leafy green)
- 1 x tbs flax oil (or evening primrose or hemp, or good EFA blend)
- 2 x tbs undenatured whey protein

Blend in a powerful blender (like a vitamix or ice-tank) until smooth, creamy and green!

Additional hint: to crush the linseeds or chia seeds, purchase an inexpensive coffee grinder from your local supermarket.



Berry Radical contains 10 of the worlds most potent, antioxidant, superfoods:

certified organic raw unrefined cacao powder, dried coffee fruit extract, certified organic freeze-dried pomegranate powder, certified organic freeze-dried goji berry powder, certified organic freeze-dried acai berry powder, certified organic whole dried dunalialla salina marine microalgae, certified organic freeze-dried blueberry powder, certified organic freeze-dried raspberry powder, certified organic freeze-dried strawberry powder, certified organic freeze-dried olive juice extract, natural flavour.

1. Raw Cacao (Chocolate!)

Grown and harvested ethically and sustainably in Ecuador, raw cacao contains the antioxidant polyphenols, catechin, epicatechin and gallic acid. Epicatechin and its metabolites have been singled out as providing cacao's vasodilation benefits, which help protect against thrombosis formation and hypertension. Cacao provides significant protection to cardiovascular health, and has been found to provide more than 21 times the free radical protection of green tea. [1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#)



Cacao and Magnesium

Cacao is believed to be the richest source of magnesium of any common food. Magnesium is one of the most important minerals in the body and is the number one mineral that assists and supports healthy heart functioning. It is vital for over 300 enzyme systems in the body – more than iron and zinc combined, yet nearly 70% of the population is deficient in magnesium. Many experts believe even with a healthy diet, produce may still be grown in mineral-depleted soil and lacking in this vital nutrient. Studies have shown magnesium may have a beneficial effect on the cardiovascular system. Low magnesium levels have also been found in patients who have died from heart attacks. Magnesium has also been found to be beneficial in Asthma, where it promotes relaxation of the bronchial smooth muscle. Magnesium may help prevent calcium crystallising in the kidneys to create kidney stones. Magnesium deficiency is strongly implicated in PMS. Symptoms like abdominal bloating, breast pain, headaches, fatigue, fluid retention, mood swings, insomnia and anxiety are all symptoms of magnesium deficiency and PMS! Magnesium supplementation is as important as calcium supplementation in the treatment and prevention of osteoporosis. It helps the body metabolise calcium and converts dietary vitamin D to an active form. Magnesium is also beneficial for Gastric Disturbances (heartburn and flatulence) as it neutralises the stomach acid converting it to magnesium chloride. With less acid available less gas is produced, resulting in alleviation of the symptoms. Magnesium may also help relieve constipation, by relieving pressure on the bowel and allowing fluid to soften bowel movements. Studies have found magnesium supplementation may help relieve tension headaches, muscle tension, and associated pain and cramps. Low magnesium levels have also been found in chronic migraine sufferers.

2. Coffee Berry

Like many plants, coffee distributes its powerful nutrition throughout the whole fruit, not just in the seed. Whole coffee fruit is loaded with high concentrations of beneficial antioxidants and other extraordinary nutrients including polyphenols, chlorogenic, caffeic and ferulic acid. Coffee plants grow on the slopes of high-altitude volcanic mountainsides. Nourished by mineral-rich soil and warmed by intense tropical sunlight, coffee plants produce a profusion of wonderful bright red fruit. Coffee fruit is so exceptionally rich in antioxidants because it grows in high altitude, low-latitude regions where the sun's rays are strongest. As the plants mature, they develop powerful antioxidants to protect them from damage caused by high doses of the sun's radiation and the natural by-products of photosynthesis. One gram of our coffee berry provides the same free radical protection as over two kilograms of grapes. [9](#), [10](#)



Coffee Berry and Glyconutrition

The whole coffee fruit also contains many healthy poly-, oligo- and five of the eight essential mono-saccharides. Polysaccharides, such as mannans and arabinogalactans, make up nearly 50% of the coffee berry. Conventional roasting destroys these nutrients, so they're not found in traditional coffee. We all know that carbohydrates provide the 'fuel' that we use to run our bodies. Until recently, it was thought energy creation was the only role that carbohydrates played in our body. During the last few years, however, emerging science has suggested that eight carbohydrates, Mannose, Galactose, Fucose, Xylose, Glucose, Sialic acid, N-Acetylglucosamine, and N-Acetylgalactosamine, are essential to life because they are the basic building blocks of all biological communication. Scientists believe that this family of eight mono- saccharides is essential in order for our immune systems to function properly. Coffee berry releases unusually high levels of mannose, galactose, fucose, xylose, arabinose and glucose during digestion.

3. Açai Berry

Wild harvested sustainably and fairly from the Amazon forest, the powerful purple berry, Açai (ah-sigh-ee) contains a potent antioxidant, anthocyanins. Anthocyanins are a group of phytochemicals found in red wine that are thought to contribute to the "French paradox", i.e. France has one of the lowest incidences of heart disease of any western society despite the prevalence of smoking and a diet high in saturated fat and cholesterol. Açai contains the potent antioxidant, anthocyanins, at 10-30 times the concentration found in red wine. Other potential physiological effects of anthocyanins include radiation-protective, chemoprotective, vasoprotective and anti-inflammatory agents. [11](#), [12](#), [13](#)

4. Goji Berry

The 'red diamond' of Traditional Chinese Medicine for over 2000 years, contains the powerful carotenoid antioxidants, zeaxanthin, beta-carotene, lutein, lycopene, cryptoxanthin and xanthophyll. Carotenoids are thought to protect against cardiovascular and inflammatory diseases, vision-related diseases (such as age-related macular degeneration and glaucoma), and are anticancer agents. [14](#), [15](#), [16](#), [17](#), [18](#)



5. Blueberry

Contains the polyphenolic antioxidant anthocyanins. Anthocyanins, which are flavonoids, were found in one study to have the strongest antioxidant power of 150 flavonoids tested. Anthocyanins have been shown to exhibit anti-inflammatory properties and protect both large and small blood vessels (including those in the eyes) from oxidative damage. [19](#), [20](#), [21](#), [22](#)



6. Raspberry

Contains the polyphenol antioxidant, ellagic acid, has been shown to reduce heart disease, birth defects, liver problems, and promote wound healing.

Ellagic acid may help inhibit different types of cancer causing agents, including aflatoxin and nitrosamines. Ellagic acid seems to have some anti-cancer properties and has been found to cause death in cancer cells in the lab. [23](#), [24](#), [25](#), [26](#)



7. Strawberry

A rich source of the polyphenol antioxidants, quercetin, ellagic acid and anthocyanin. Quercetin has been shown to protect colon, breast, ovarian and gastrointestinal cells against cancer growth. Quercetin has also been shown to protect strokes, cataracts, virus' and allergies. [27](#), [28](#), [29](#), [30](#)



8. Pomegranate

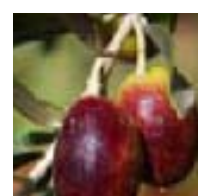
Contains the polyphenol antioxidants, punicalagins and ellagic acid. Research suggests that pomegranate may be beneficial for arteriosclerosis, heart disease, osteoarthritis and prostate cancer. [31](#), [32](#), [33](#), [34](#), [35](#), [36](#), [37](#), [38](#)



9. Olive

Contains antioxidant polyphenols extracted from the pulp of fresh, organically grown olives. Hydroxytyrosol is the natural olive polyphenol with the highest level of free radical protection activity ever reported for any natural antioxidant compound!

While the olive has received most attention for its oil, until now the olive water, or juice, has been a mere by-product of olive production. In fact, disposal of the juice has been costly for the industry. After all, the olive is only 15-20% oil and more than 50% juice. So what have we been throwing away? The answer is olive polyphenols, especially hydroxytyrosol, a highly potent and protective antioxidant. In fact, polyphenols are much more prevalent in the olive juice than in the oil. Yet it is these unique polyphenols that are considered responsible for extra virgin olive oil's health benefits. Imagine the antioxidant capacity of olive juice with up to 300 times more polyphenols than the oil! [39](#), [40](#), [41](#), [42](#), [43](#), [44](#), [45](#)



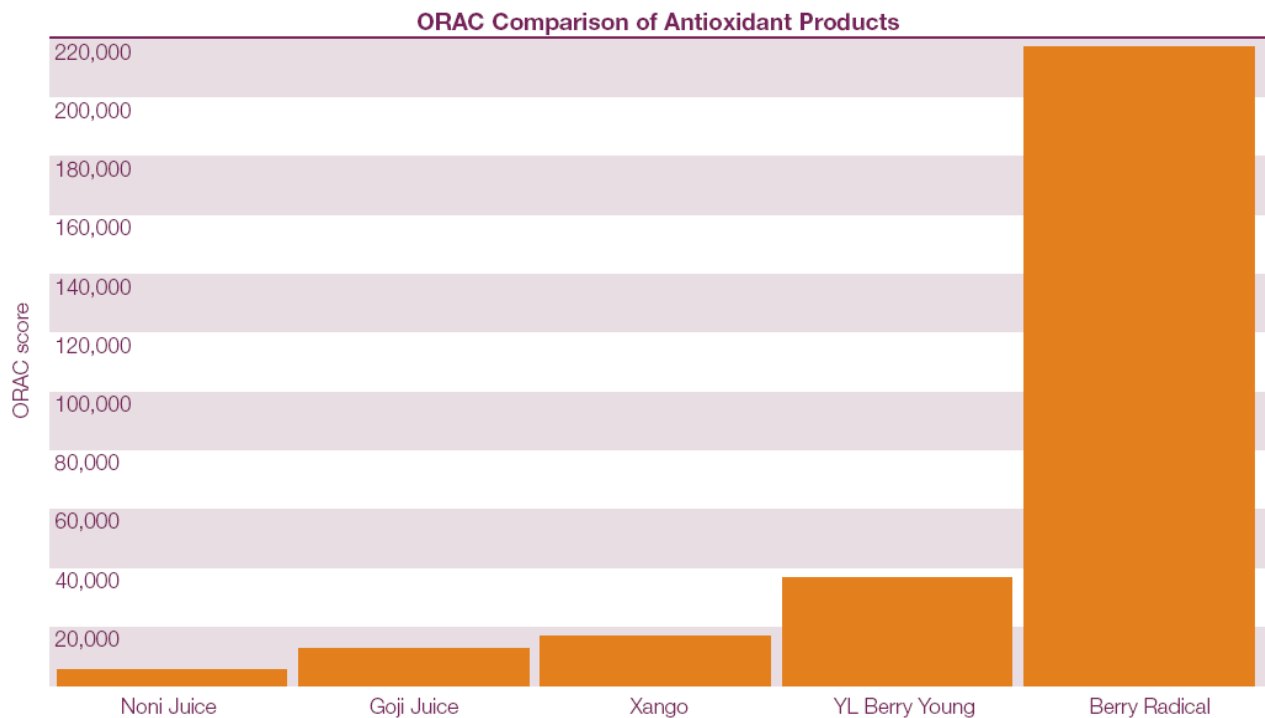
10. Dunaliella Salina

Is a marine microalgae, and the richest known source of dietary carotenoids including extremely high quantities of beta and alpha carotene, a deep orange-red pigment. A rich combination of carotenoids and green chlorophyll give Dunaliella salina its orange-red colour. Our Dunaliella salina is farmed in large shallow lakes at Karratha in Western Australia. They are grown in clean Australian ocean waters collected from natural tidal catchment ponds, and use pure sunlight as an energy source. No herbicides or pesticides are used. They are harvested and dried mechanically without chemicals or solvents. Research shows that carotenoids have antioxidant, anticarcinogenic and immune enhancing properties. They help to protect against free radical cell damage responsible for premature ageing, cataracts, cardiovascular disease and other chronic diseases. This marine microalgae contains the powerful antioxidant family of carotenoids, including alpha and beta carotene, lutein, zeaxanthin and cryptoxanthin, which may help protect against premature ageing, cataracts, cardiovascular disease and other chronic diseases. [46](#), [47](#), [48](#), [49](#), [50](#), [51](#), [52](#), [53](#), [54](#), [55](#), [56](#), [57](#), [58](#), [59](#)



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Berry Radical Information and Comparison Charts



Supplement	ORAC Score per Serving	Additional information about the product
Tahitian Noni Juice 30ml	165	Reconstituted concentrate
Himalayan Goji Juice 30ml	380	Preserved with sodium benzoate and potassium benzoate Reconstituted from concentrates
Xango 30ml	530	Preserved with potassium sorbate and sodium benzoate Reconstituted from concentrates
YL Berry Young 30ml	1130	Preserved with potassium sorbate and sodium benzoate Reconstituted from concentrates
Berry Radical 5g sachet	7240	Certified organic, freeze-dried, raw, living fruits, berries and cacao (chocolate) Preservative-free

Foods	Supplements
9 kilos of blueberries @ ~\$500	6 bottles of YL Berry Young @ US \$324
14 kilos of strawberries @ ~\$220	12 bottles of Xango Mangosteen juice @ US \$480
17 kilos of raspberries @ ~\$840	17 bottles of Himalayan Goji juice @ US\$ 893
	41 bottles of Tahitian Noni juice @ US \$1727

Food/Supplement	ORAC Score / Serving
100g blueberries	2400
100g strawberries	1540
100g raspberries	1220
30ml YL Berry Young	1130
30ml Xango	530
30ml Himalayan Goji Juice	380
30ml Tahitian Noni Juice	165