

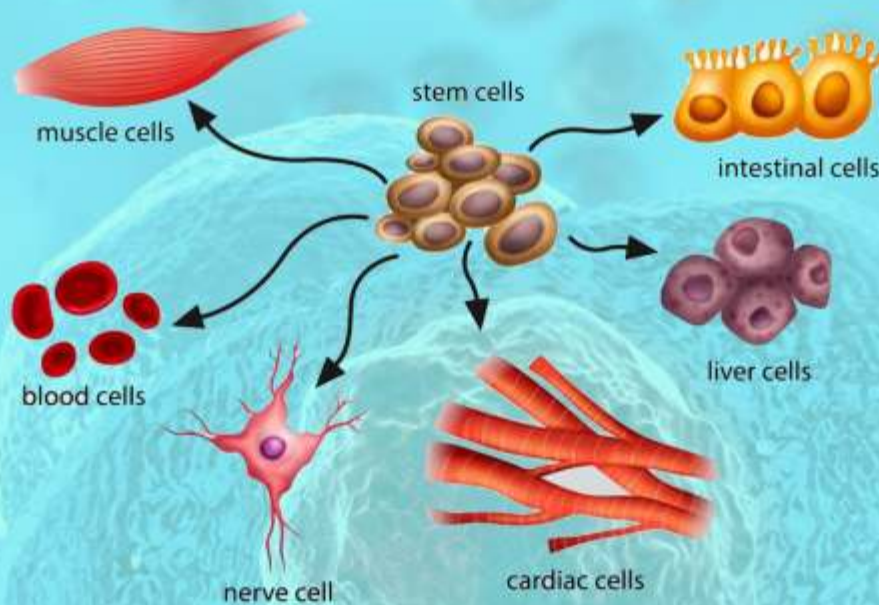
# What are Stem Cells ?

Stem cells are special human cells that are able to develop into many different cell types. This can range from muscle cells to brain cells. In some cases, they can also fix damaged tissues.

Researchers believe that stem cell-based therapies may one day be used to treat serious illness.

## Stem Cells Vs. Other types of cells

- 1 Stems Cells can divide & renew themselves.
- 2 They're unspecialized.
- 3 Stem Cells have the potential to become specialized cells, such as muscle cells, blood cells or brain cells.







The **ORIGIN** Way to Health:  
**Bringing Bioeconomy Wellness into Life**  
Health • Innovation • Partnership

**Essence Care** (*One Stop Solution for General Health*)  
In Collaboration with The Origin Foods Sdn Bhd,  
Puchong, Malaysia



Specialise in manufacturing of Health Foods, Nutritional Supplements and Herbal Products

# Essence Care

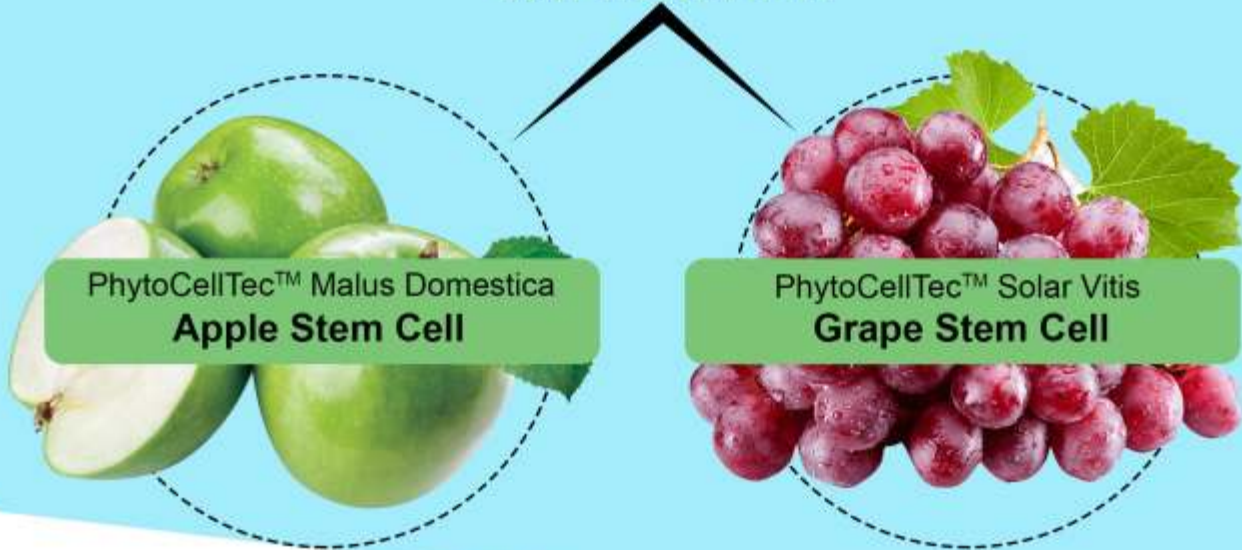
Dehydrated fruit powder





# About *Essence Care*

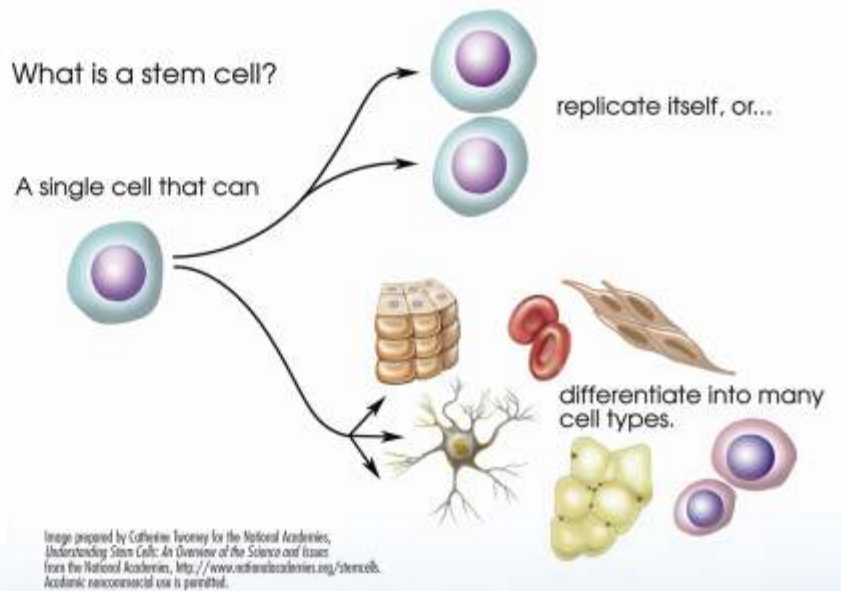
## KEY INGREDIENT



## What exactly are stem cells?

They provide new cells for the body as it grows, and replace specialized cells that are damaged or lost.

Currently in medicine, stem cells are already used particularly in transplant medicine to treat leukemia and severe burns.



# Does human body contain stem cell?

## Definitely Yes!!

(I) **Embryonic stem cells** - can differentiate into all cell types of the body.

(II) **Adult stem cells** - can only differentiate into their own or related cell types (Main Function: to maintain and repair tissue)



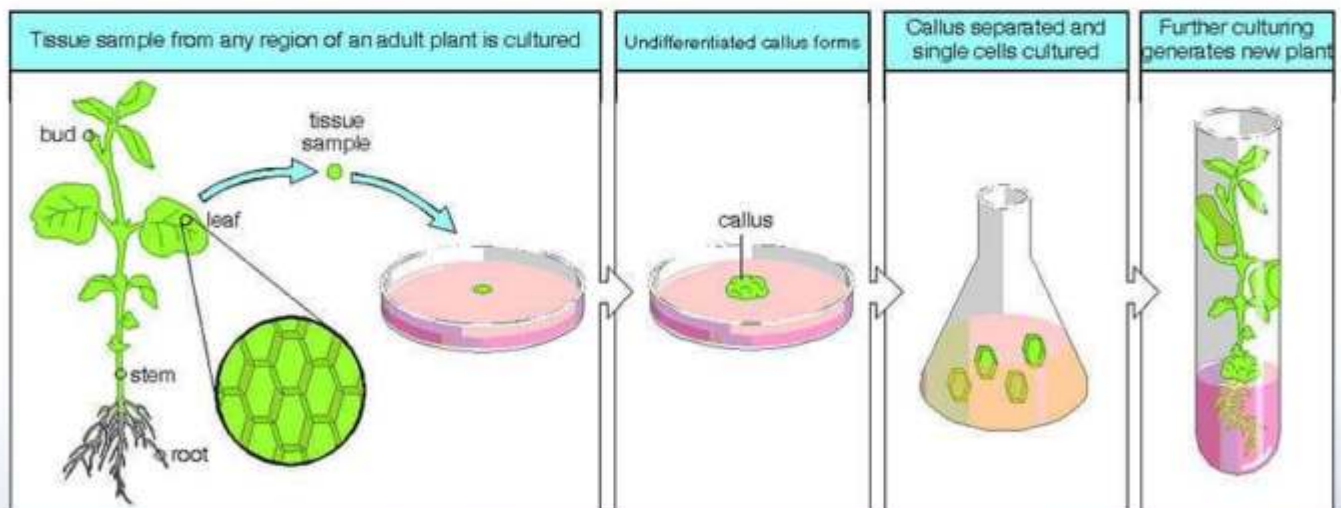
## Difference Between human and plant stem cell

### Unlike human stems cells,

- Adult plants contain totipotent stem cells that have the potential to differentiate into all other tissues of the plant or even regenerate the entire plant.

Eg. by cutting the branch of a tree also results in a new bud/branch growth.

The ability to regenerate a whole new plant by using a single tissue makes it currently one of the most pioneering and exciting ingredients in food supplement.





# How do plant stem cells help?

Human stem cells on the skin's epidermis replenish and maintain the balance of cells within the skin tissue and regenerate tissue damages during injury.

But with age, the number of skin stem cells decreases and their ability to repair the skin becomes less efficient.

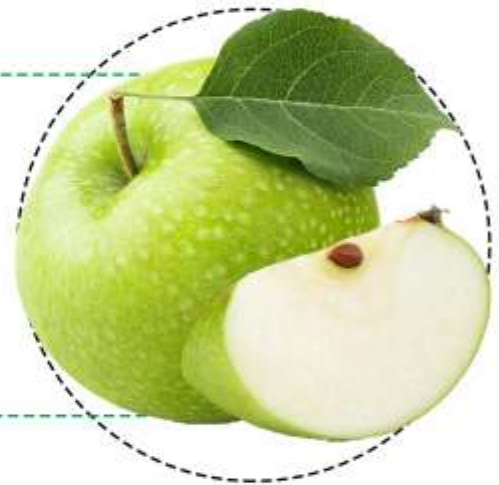
Once they begin depleting, the signs of aging start kicking in (in the forms of loose skin and wrinkles)

With the help of plant stem cells, it help to diminish the sign of aging, boost production of human stem cells and protect the cell from stress.

## PhytoCellTec™ Malus Domestica

### 1 Swiss Apple Stem cell

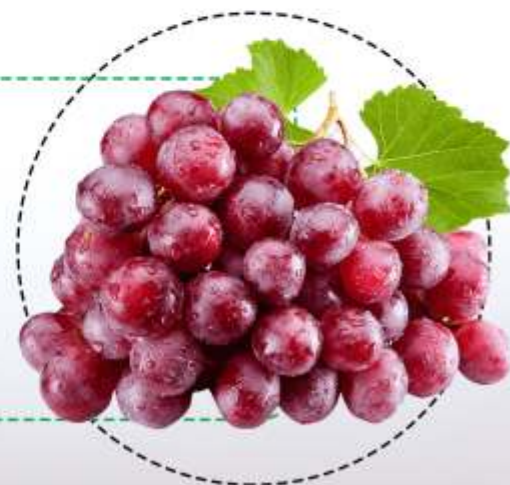
- Patented liposomal preparation of apple stem cells derived from the 'Uttwiler Spätlaube', Swiss apple variety
- Uttwiler Spätlauber apples have especially long-living tissue stem cells, very famous for its excellent storability without shriveling
- These apple stem cells are rich in epigenetic factors and metabolites, which ensures the longevity of skin cells



## PhytoCellTec™ Solar Vitis

### 2 Grape Stem cell

- Derived from the grape (vitis vinifera) cultivar 'Gamay Teinturier Fréaux' originates from the Burgundy region of France.
- Characterized by its red flesh and juice due to the extremely high anthocyanin content.
- Contain anti-inflammatory and antioxidant properties.





# How can these promising stem cells help our skin?

## Protect Against UV Radiation

The stem cells were stressed through irradiation with UV light.

Almost 50% of the cells that were cultured in the growth medium alone died, whereas cells cultured in presence of an extract of Uttwiler Spätlauber experienced only a small loss of viability (Fig 5).

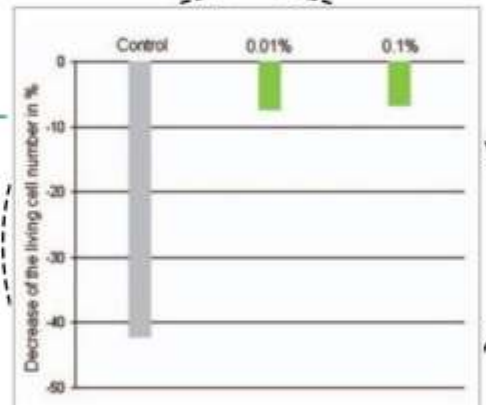


Fig. 5 Uttwiler Spätlauber stem cell extract protects umbilical cord blood stem cells against UV light

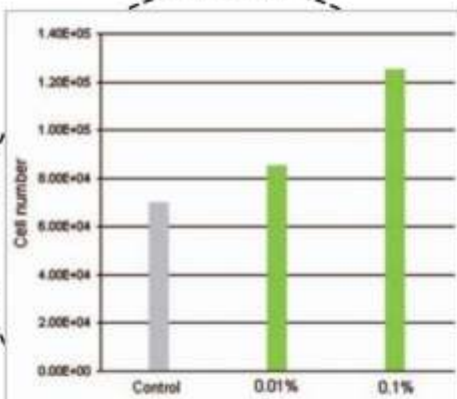


Fig. 4 Effect of Uttwiler Spätlauber stem cell extract on viability of umbilical cord blood stem cells

## Protection Against Human Stem Cell

At only 0.1%, the extract stimulated cell proliferation by 80%.

Results showed that Malus Domestica stem cell extract has a positive effect on stem cell growth thus maintaining the growth and the proliferative activity of stem cells.

## Retardation of Senescence in Isolated Hair Follicles

Addition of 0.2 % of this extract was found to slightly but clearly postpone senescence and necrosis.

Follicles kept in presence of the MalusDomesticastem cell extract continued to elongate until day 18, whereas the control follicles started to shrink after day 14.

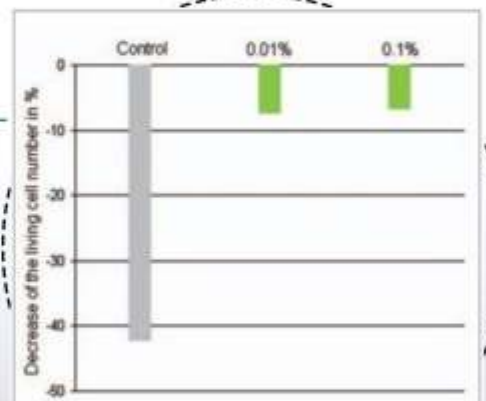


Fig. 5 Uttwiler Spätlauber stem cell extract protects umbilical cord blood stem cells against UV light

# Anti-Wrinkle Effect on the Crow's Feet Area

PhytoCellTec™ MalusDomesticacream was found to significantly reduce wrinkle depth after two and after four weeks, by 8% and 15% respectively.

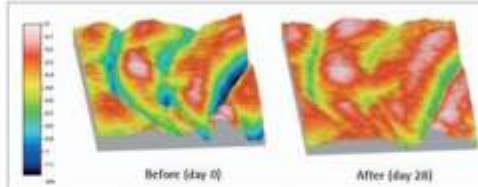


Fig. 7 3D picture analysis of the crow's feet area before and after application of a cream with 2% PhytoCellTec™ Malus Domestica



Fig. 8 Digital photos of the crow's feet area before and after treatment with a cream with 2% PhytoCellTec™ Malus Domestica

# Protection Against Human Epidermal Stem Cell

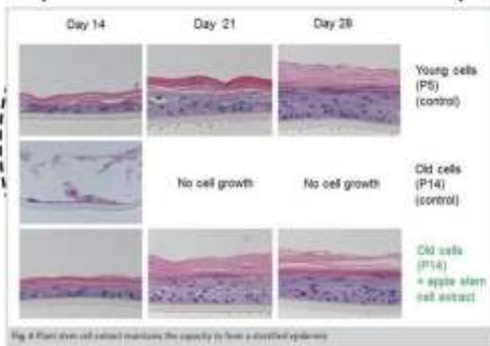


Fig. 8 Plant stem cell extract maintains the capacity to form a dermal epidermis

Old cells (passage 14) were completely unable to form the 3D epidermal structure.

However old cells that had been maintained in the presence of the apple stem cell extract exhibited no loss of function, and were able to establish a perfectly normal 3D epidermal structure even at this advanced age (Figure 4; old cells + apple stem cell extract).

## Who Would Benefit From Taking Plant Stem Cell?

Those who have noted wrinkles, deep creases, crepiness, or sagging skin

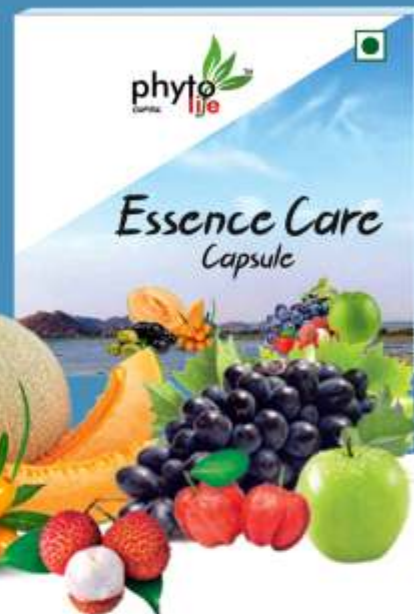




# Why Essence Care?

Not only provides you the skin benefits, but also,

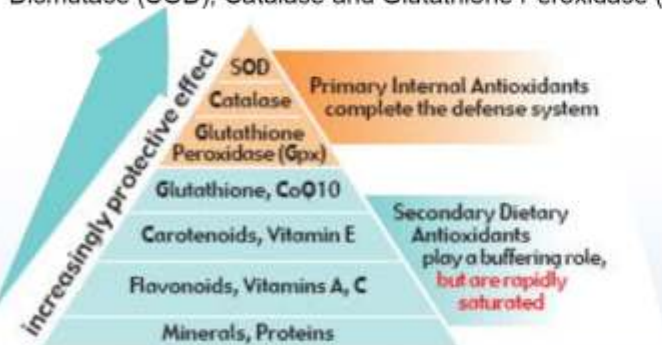
- Contains blueberry powder that high in antioxidants effect hence boosting the immune system
- Reduce risk of heart disease
- Benefit the brain by delaying mental decline
- Contains olive extract that could contribute to heart and joint health
- Contain acai berry extract helps to lower cholesterol levels
- Easy method of consumption, direct consume 1 or 2 sahets per day



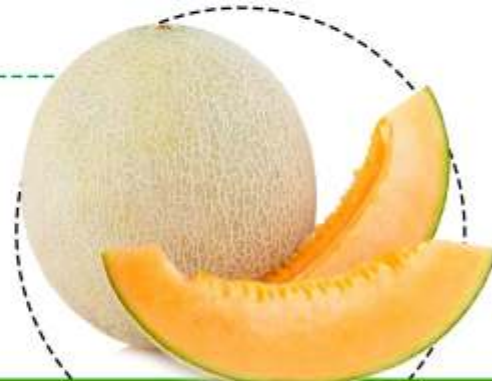
## Benefits of Glisodin

Help maintain cellular health and protect against damage caused by oxidative stress. Unlike secondary dietary antioxidants, **GliSODin** works as an antioxidant catalyst, promoting the production of the body's own, primary antioxidants at the cellular level.

GliSODin activates the most powerful antioxidants known, the body's own internal antioxidant defense system, including Superoxide Dismutase (SOD), Catalase and Glutathione Peroxidase (Gpx):



Prevents cancer, improves immune system, skin health, eye, diabetes and arthritis.



VITAMINS		CALORIES	MINERALS	
36.7 mg (41% DV) Ascorbic acid	<b>C</b>	34 kcal	K 267 mg (6% DV) Potassium	
169 µg (19% DV) Vitamin A, RAE	<b>A</b>		Cu 0.041 mg (5% DV) Copper	
21 µg (5% DV) Folate	<b>B<sub>9</sub></b>		Mg 12 mg (3% DV) Magnesium	
0.734 mg (15% DV) Niacin	<b>B<sub>3</sub></b>		Zn 0.18 mg (2% DV) Zinc	
0.041 mg (1% DV) Thiamin	<b>B<sub>1</sub></b>		Mn 0.061 mg (2% DV) Manganese	
2.5 µg (2% DV) Phylloquinone	<b>K</b>		Less than 2% DV minerals: Phosphorus, Calcium, Iron, & Selenium	
0.105 mg (2% DV) Pantoic acid	<b>B<sub>5</sub></b>			
Less than 2% DV vitamins: Choline, B <sub>6</sub> , B <sub>12</sub> , & E				
Serving Size: 100 g				
WATER 90.15 g	PROTEIN 0.84 g (2% DV)	CARBOHYDRATE 8.16 g (3% DV)	TOTAL FATS 0.19 g (0% DV)	DIETARY FIBER 0.9 g (4% DV)
				SUGARS 0.9 g (4% DV)



# Astaxanthin

- ✓ 6,000 times stronger than vitamin C
- ✓ 800 times stronger than green tea catechins
- ✓ 550 times stronger than vitamin E (A-Tocopherol)
- ✓ 75 times stronger than Alpha Lipoic Acid
- ✓ 40 times stronger than than Beta-Carotene
- ✓ 17 times more potent than grape seed extracts
- ✓ Suppresses DNA damage



## STUDIES SHOW:

- ✓ Alleviates sore joints and muscles
- ✓ Anti-inflammatory
- ✓ Anti-aging (reverses external aging, wrinkles, and sun damage)
- ✓ Boost immune system
- ✓ Helps blood pressure
- ✓ Helps cardiovascular system
- ✓ Prevents cataracts, macular degeneration, and glaucoma
- ✓ Reduces lactic acid

# Olingonol (Lychee)

## BENEFITS

- ✓ Beneficial for weight loss
- ✓ strengthens immune system
- ✓ Promotes blood circulation in body
- ✓ Prevents spread of virus such as herpes
- ✓ Reduces risk of cancer
- ✓ Helps improve digestive health
- ✓ Protects skin against harmful UV rays
- ✓ Helps maintain blood pressure and fluid balance in body

## HEALTH BENEFITS

- ✓ Aids Digestion
- ✓ Boosts Immunity
- ✓ Effective against cancer
- ✓ Has Antiviral Property
- ✓ Controls Blood Pressure
- ✓ Has Anti-influenza Activity
- ✓ Improves Blood Circulation
- ✓ Prevent Blood Vessel Rupture

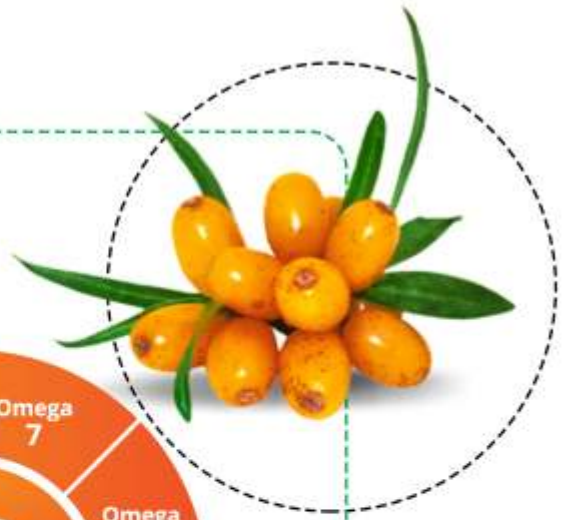
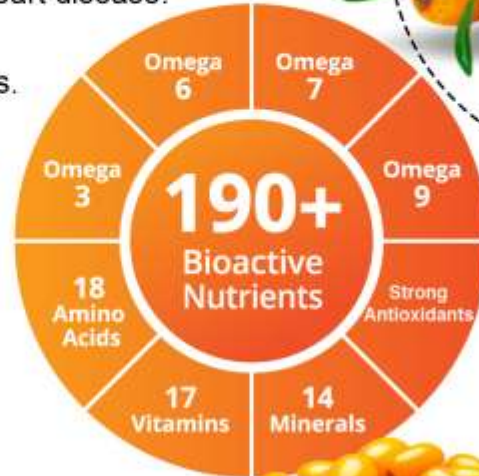




# Sea Buckthorn

## BENEFITS

- ✓ Treat stomach or intestinal problems.
- ✓ Improve blood pressure or blood cholesterol.
- ✓ Prevent or manage blood vessel or heart disease.
- ✓ Complement cancer treatment.
- ✓ Boost immunity and prevent infections.
- ✓ Treat obesity.
- ✓ Improve symptoms of cirrhosis.
- ✓ Improve eyesight or dry eyes.



# Acai Berries

## HEALTH BENEFITS

**Acai Berries are loaded with Antioxidants... Antioxidants are important because they neutralize the damaging effects of Free Radicals throughout the body...**

- ✓ Healthy Heart
- ✓ Healthy Skin
- ✓ Fight Cancer
- ✓ Aids in Weightloss
- ✓ Anti Aging
- ✓ Improves Cellular Health
- ✓ Improves Mental Health
- ✓ Helps Indigestion
- ✓ Energy Boost
- ✓ Increases Libido
- ✓ Improves Sleep
- ✓ Lower Cholesterol

## NUTRITION





# Acerola

## HEALTH BENEFITS

- ✓ Good for Diabetics
- ✓ Boost Immune System
- ✓ Skin Care
- ✓ Healthy Heart
- ✓ Improves Digestion
- ✓ Boosts Eye Health
- ✓ Promotes Weight Loss
- ✓ Anti-Aging Benefits

## NUTRITION FACTS PER 100G

Amount Per 100g	
<b>Calories</b> - 32	Calories from Fat - 3
<b>Total Fat</b>	<b>0.3g</b>
Saturated	<b>0.07g</b>
Polyunsaturated	<b>0.09g</b>
Monounsaturated	<b>0.08g</b>
<b>Cholesterol</b>	<b>0mg</b>
<b>Total Carbohydrate</b>	<b>7.69g</b>
Dietary Fiber	<b>1.1g</b>
Sugars	<b>0g</b>
<b>Protein</b>	<b>0.4g</b>
Vitamins and Minerals	
A 38µg	C 1677.6mg
B-6 0.01mg	B-12 0µg
D 0µg	E 0mg
Calcium 12µg	Iron 0.2mg
Magnesium 18mg	Zinc 0.1mg
Potassium 146mg	Sodium 7mg

Calorie Breakdown:

- Carbohydrate (87%)
- Fat (8%)
- Protein (5%)



# Camu Camu

## HEALTH BENEFITS

- ✓ Strengthens the immune system
- ✓ Good source of beta - carotene
- ✓ Helps to prevent cancer
- ✓ Lowers blood pressure
- ✓ Promotes mood balance
- ✓ Powerful antioxidant
- ✓ Improves circulation
- ✓ Improves your mood
- ✓ Anti-depressant
- ✓ Antiseptic

## NUTRITION



## DID YOU KNOW THESE CAMU CAMU FACTS?

- ✓ It is found throughout the Amazon rain forests of Peru and Brazil
- ✓ The fruit is packed with more natural vitamin C than any other food source on the planet
- ✓ Camu camu has been used for medicinal purposes by the Amazonian Indians for more than 700 years
- ✓ Camu camu is a staple food to numerous tribes in South America
- ✓ The fruit is hand-picked by Amazonian natives the fruit picking season



# Mixed Berries

## HISTORY

Among the most popular super-foods to date. Mixed berries combination of blackberry, antelderberry, raspberry and blueberry.



## BENEFITS

- ✓ High in antioxidant anthocyanins which are compound of flavonoids that is proven to prevent aging of the skin
- ✓ Boost overall cognitive function
- ✓ Strong antioxidant, able to combat against free radical damage, which is the main cause of cancer
- ✓ The antioxidant activity of berries include the protection of LDL against oxidation
- ✓ Berries are high in fiber
- ✓ Help keep your arteries healthy

# Hytolive

## COMPELLING REASONS TO DRINK Olive Oil ON AN EMPTY STOMACH

