

ActiveH[®] day

ActiveH[®] night

Colloidal Silica Microcluster
mineral complex with potassium
or with magnesium

Dietary supplement



For cell energy and against oxidative stress

Active H[®] day in the morning and during the day – with stimulating potassium, silica, boron and B6
Active H[®] night in the evening and at night – with calming magnesium, silica, boron, zinc and B6

Active H[®] – now new with boron – contributes to the normalization of

- Cell protection against oxidative stress (neutralization of free radicals)
- Cell energy production (ATP)
- Reduction of tiredness and fatigue
- Immune system (defence power)

Use of Active H[®]

- to enhance and supplement food daily
- with a lack of energy, tiredness and fatigue
- with/for increased physical and mental performance as well as sport
- for smokers and environmental pollution
- to balance a one-sided or excessively acidic diet
- during alkaline and excretion cures, or weight loss diets

No limitations or incompatibilities are known. Suitable for vegans.

Active H[®] day contributes additional to:

- acid-base balance (pH milieu)
- cognitive function (mental energy)
- Nutrient metabolism in the body

Active H[®] night contributes additional to:

- Electrolyte balance (pH-milieu)
- Psychic function and nervous system (mental balance)





With ActiveH[®] day through everyday life.



Relax into the night with ActiveH[®] night.

Use of Active H[®] day

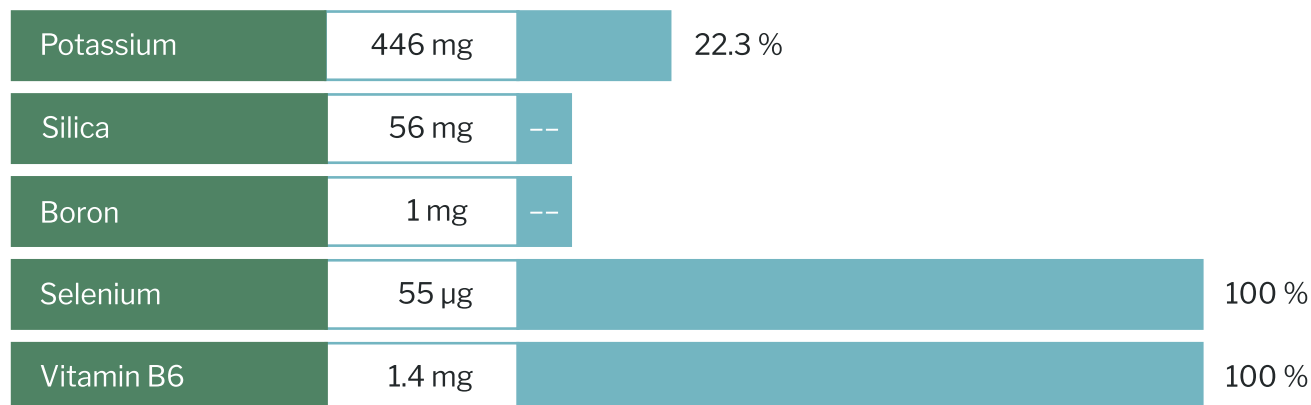
Take 2 capsules in the **morning** with sufficient good quality water. For cases of high oxidative load as well as **before** sporting activities take another 2 capsules during the day.

Use of Active H[®] night

Take 2 capsules in the **evening** with sufficient good quality water. For cases of high oxidative load as well as **after** sporting activities take another 2 capsules at night.

Nutrients Active H[®] day

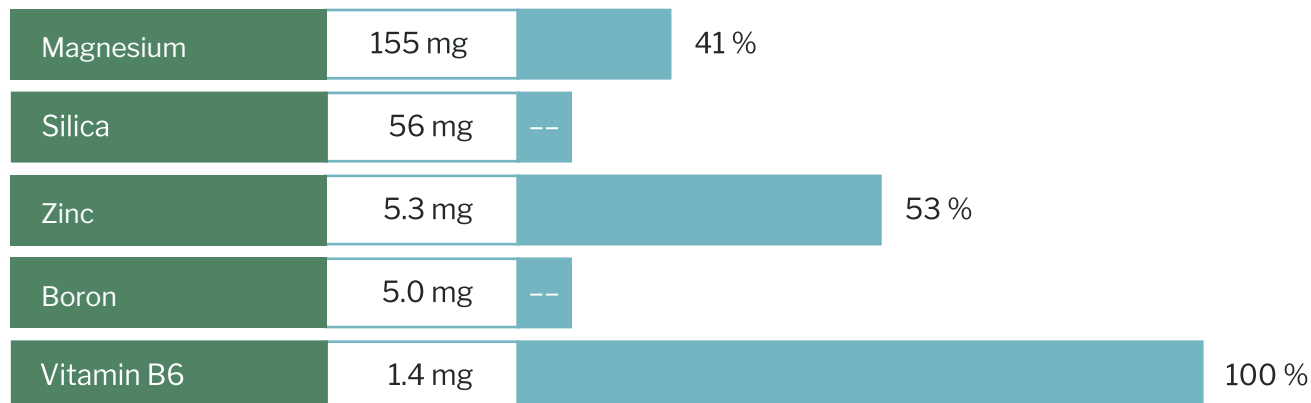
per 2 capsules (daily recommendation)



%-values: Nutrient Reference Value (NRV)

Nutrients Active H[®] night

per 2 capsules (daily recommendation)



%-values: Nutrient Reference Value (NRV)

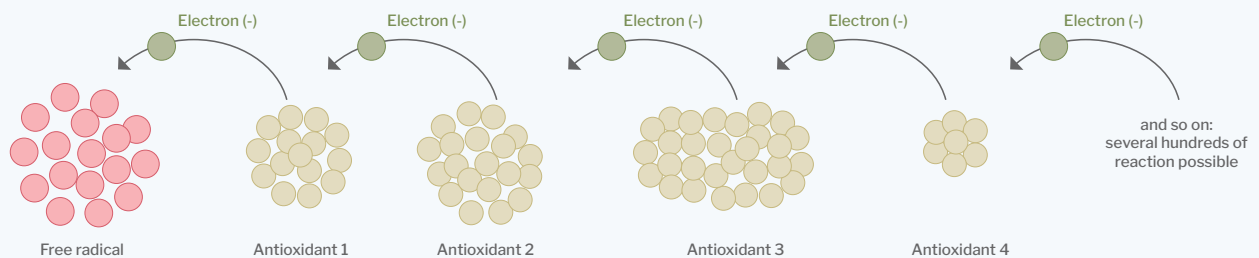
Active hydrogen is a superior antioxidant

Antioxidants such as vitamins, secondary plant substances (polyphenols) or protein precursors such as glutathione are natural “rust guards” and protect all organisms in nature from attacks by free radicals – aggressive, reactive and harmful molecules that arise through stress, poor diet, environmental toxins as well as waste products from most metabolic processes (cell respiration/oxidation) in the human body.

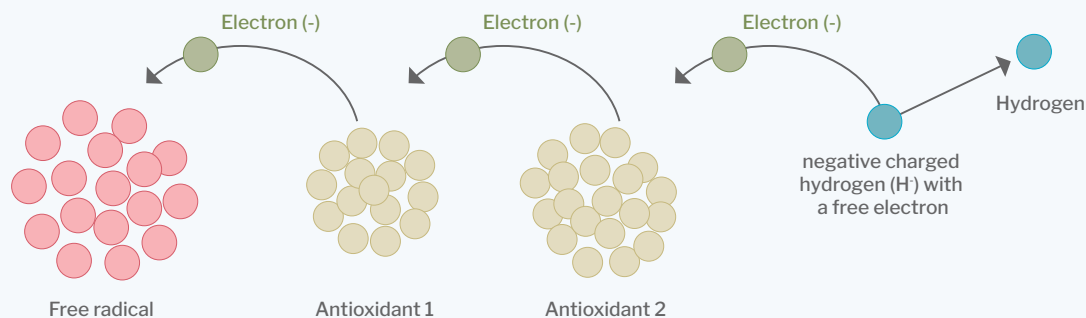
Negatively charged hydrogen ions (H^-) are the smallest, low molecular weight (i.e. able to penetrate cell walls) and yet most powerful antioxidants (approx. -710 mV) in the world. At the same time they are the ultimate scavengers for free radicals, because they own an excess electron to neutralize such radicals.

Free radicals are missing an electron. Therefore, they are positively charged, unstable and urgently looking for substitute electrons, which they can extract from other molecules or substances in the body. When molecules from body tissues lose their electrons to free radicals, their functions suffer damages. However, if an overgrowing formation of reactive oxygen compounds exceeds the physiological level, the antioxidant capacity of the organism can be rapidly exhausted and the regular degradation of the radicals becomes imbalanced. Such a deranged metabolic situation, which overburden the natural repair and detoxification capacity of a cell, is named as oxidative stress.

Electron cascade of common antioxidants



Electron cascade with Active H^- , which stops this chain reaction

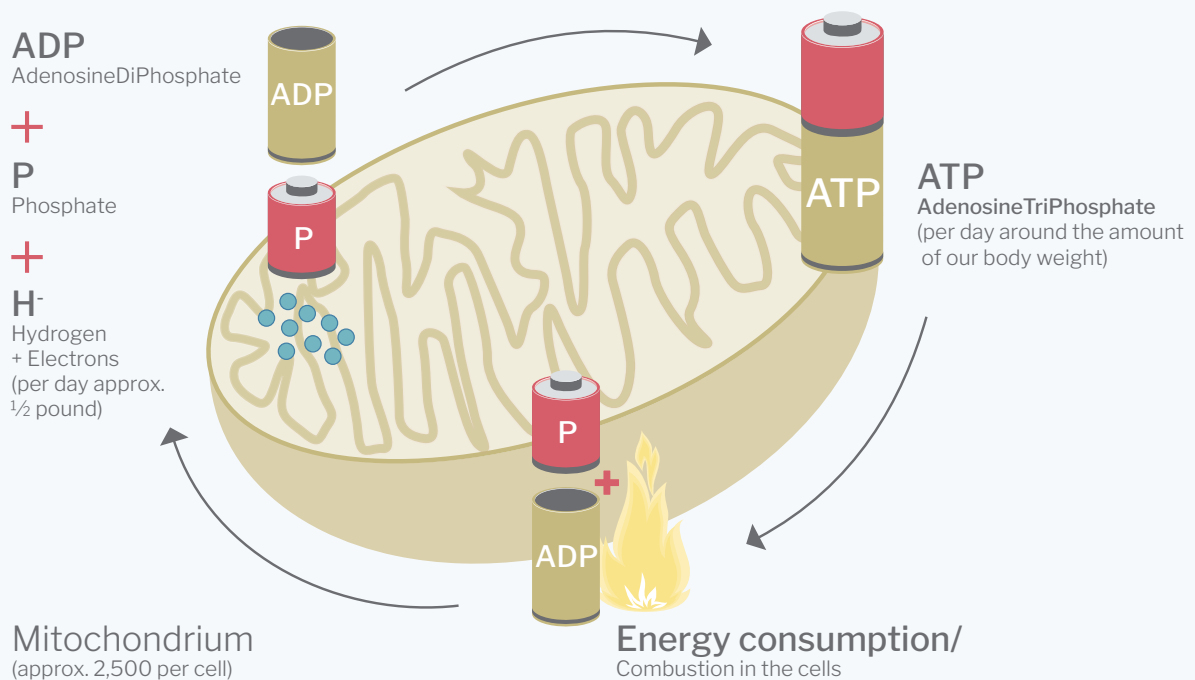


Antioxidants can give to free radicals what they need: substitute electrons. The problem here is that if a conventional antioxidant donates a regular electron, consequently this electron is missing in the antioxidant, and it itself becomes a free radical. The now-radicalized, damaged antioxidant will now tear an electron from the next weaker antioxidant substance, and so on, and so on. A resource-consuming chain reaction arises, the “electron cascade”. Only active hydrogen is able to terminate this electron cascade immediately by means of its excess electron.

Cell energy metabolism

Few people are aware of the crucial role that hydrogen plays in our cell energy formation, beside elementary oxygen. Negatively charged hydrogen ions (hydrogen+electrons) are “fuel” for the mitochondria. Together with oxygen, they are involved in the synthesis of the energy molecule ATP (adenosine-tri-phosphate), which supplies every cell of our body with life energy via the cellular respiration. As already described, each hydride (H^-) can provide one proton (H^+) and two electrons ($\text{e}^- + \text{e}^-$) for ATP production. Oxygen, hydrogen protons, and electrons often represent the limiting factors of ATP formation in people who feel tired, exhausted and fatigued.

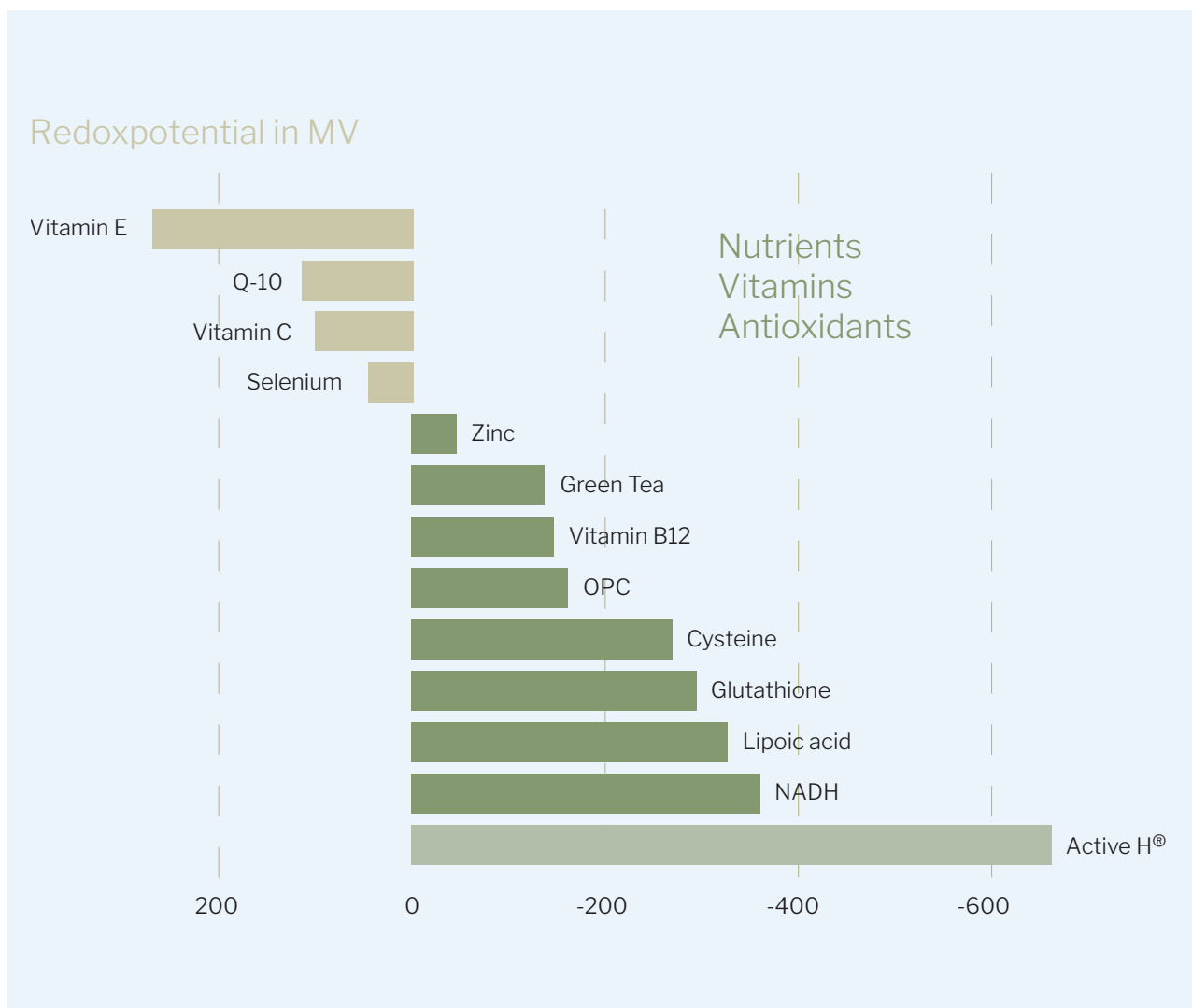
Energy supply in the mitochondria (respiratory chain or electron transport chain)



The antioxidant with the world's strongest redox potential

Antioxidants such as NADH, glutathione or Q-10 have a different antioxidant power/reduction force which can be measured as a redox potential. The magnitude of the negative redox value (in minus millivolts (-mV)) describes the excess of free electrons, also called the antioxidant power of a substance. Active hydrogen is therefore the most powerful antioxidant known in our scientific world. At in-vitro measurements in laboratories, Active H[®] achieves a redox potential of more than -700 mV.

The diagram shows that Active H[®] (approx. -710 mV) is more than twice as strong as NADH (approx. -320 mV) and is about 99x stronger than vitamin C (approx. + 80 mV).



Colloidal cluster structures, such as occur in silicon compounds, are naturally amorphous and therefore adsorb substances very easily. Therefore, colloidal silica is liable to e.g. to bind hydrogen particles loosely during conventional hydrogenation and to “store” significant amounts of hydrogen, in particular as hydride ions (H⁻), as so-called “active hydrogen”.

In nature active hydrogen occurs predominantly in fresh fruit and vegetables as well as in fresh spring water, and corresponds in its mode of action to food-typical and body-specific vital substances such as NADH, glutathione or Q-10. It is extremely volatile and reactive, which is why it is often not available to us to sufficient degree.

Ingredients Active H[®] day

Tri-potassium citrate (81%), capsule shell: hydroxypropylmethylcellulose, colloidal silica, sodium tetraborate, selenomethionine, pyridoxine hydrochloride (vitamin B6)

Nutrients

Per 2 capsules:

Potassium: 446 mg, Silica: 56 mg, Boron: 5 mg, Selenium: 55 µg, Vitamin: B6 1.4 mg

Content

60 capsules (gastro resistant)/ 45 g.
Sufficient for 30 days.

Ingredients Active H[®] night

Magnesium citrat (68%), capsule shell: hydroxypropylmethyl-cellulose, tri-potassium citrate, colloidal silica, zinc gluconate, sodium tetraborate, pyrixodixne hydrochloride (vitamin B6)

Nutrients

Per 2 capsules:

Magnesium: 155 mg, Silica: 56 mg, Zinc: 5.3 mg, Boron: 5 mg, Vitamin B6: 1.4 mg

Content

60 capsules (gastro resistant)/ 42 g.
Sufficient for 30 days.

The gastric acid resistant cellulose capsules are intended to prevent the interaction of excess electrons with the proton-rich gastric juice. On the one hand, this preserves the stomach's acid digestive power and, on the other hand, the high density of electrons in the microclusters.

Active H[®] day & Active H[®] night can be obtained from:



Legal note: This product is for nutrition and therefore does not affect any Drug Act of any country. A good nutritional status can help the organism prevent or to overcome diseases. All statements describe characteristics and physiological effects, which can be different for consumers, and do not constitute a healing or health promise. Many of the claims used are evaluated by the European Food Safety Association (EFSA).

»Made in Germany« for dr reinwald vital ltd
Lord Byron Str. 61–63, 5th floor
CY-6023 Larnaka, Cyprus

Fon +49 30 2016 95 805
Mail shop@drreinwald.com
Web www.drreinwald.com

