

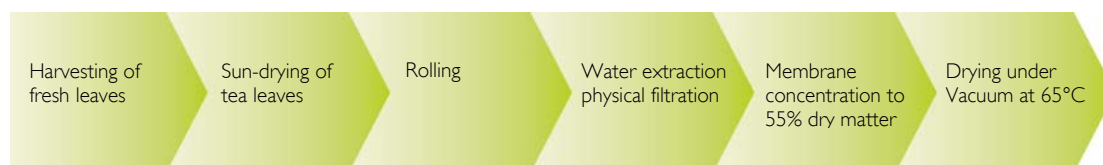
## ACTISEC™ GREEN TEA

Green tea is made from the leaves of the tea plant *Camellia sinensis*. In Asia, tea has been grown for many thousand years, first records of green tea are dated back to 600 b.c. When merchants exported tea from China in the 16th century, tea also became known in Europe.



### Production

Green tea is almost unfermented tea, compared to black tea or oolong-tea which is fully and partially fermented respectively. To produce green tea (Chinese "Ly Cha") the harvested leaves are dried in the sun, before they are heated to inactivate the naturally present enzymes that would lead to fermentation. After that, the leaves are rolled and dried – in this process the plant-cells are broken and flavours are released. To actually produce tea-powder, the dried tea leaves are cooked in water. The tea liquid obtained is then filtered and concentrated. This tea concentrate is dried by Obipektin by using the most gentle vacuum drying technology which guarantees that our Greentea Extract 200-D contains all the healthy components of a common cup of tea.



### Properties

Green tea contains important components such as catechins, especially epigallocatechingallate – a monomeric polyphenol with high antioxidant potential. Obipektin Greentea Extract 200-D contains approx. 18% catechins. Average levels of the prime catechins preserved in Greentea Extract 200-D are listed in the table to your right. Fluorine which supports dental health is present with approx. 25 mg/100 mg. As Tea is a natural product, the exact composition may vary. However, we guarantee a minimal total-phenols level and caffeine-content. Green tea is soluble in cold and hot water.

#### Average levels of catechins in Greentea Extract 200-D

Epigallocatechingallate	9.0 %
Epigallocatechine	3.0 %
Gallocatechingallate	2.2 %
Epicatechingallate	1.9 %
Epicatechine	1.0 %

### Advantages

There are more than 1800 scientific studies on green tea and its components. The most prominent positive characteristics of green tea are the following:

- Green tea has a high antioxidative potential and protective properties against free radicals.
- The tea phenols in green tea can suppress the growth of unwanted microorganisms and give fresh breath.
- The fluoride present in green tea hardens the enamel of the teeth.
- The caffeine contained in green tea invigorates the mind.
- Some studies point out that green tea is able to reduce the risk of various cancers such as breast cancer or prostate cancer. However, whether this is true or not is still controversial. Trials on animals were able to prove this relation; epidemiologic studies, on the other hand, are not yet conclusive.

### Application

Greentea Extract 200-D can perfectly be applied to instant cold or hot drinks, confectionary and bakery products.

### Go ahead!

Benefit from our decades of experience in the careful drying of fruit and vegetable powders. Ask for further recipes and samples. We will be glad to give advice whenever required.

\* A product from the ACTISEC™ range. ACTISEC™ is a range of natural products which contain a guaranteed minimum level of phytonutrients. They are sold in powder form.