

Cernitin™ - A microbiological digest

We often speak of Cernitin™ as a microbiological digest, and therefore it may be appropriate to explain what this expression means.

As you already know Cernitin™ is produced by extraction from the raw-material pollen. Hereby only type-pure pollen is used. Before the extraction it has been stabilized and purified through a special treatment. A number of selected plants give their pollen to the production of different Cernitin™ extracts. These plants have been chosen after animal experiments.

The extraction of the pollen grains presents certain problems. Each grain is a biological unit with a complete set of different substances necessary for the creation of new life. These substances are well protected by the sheath, which is very resistant and can stay unchanged for thousands of years even if the grains have fallen unprotected on the ground. However, the sheath is provided with hilums, germinal openings, covered by a membrane, which can be dissolved.

The lenient extraction method used by Cernelle can easiest be described as follows. After having removed the membrane with a solvent, the content of the grains is flushed out through the hilums. The solvent is then removed. This is done so carefully that the extract is never heated to more than 40°C. The extract received is called Cernitin™. It is then microbiologically digested in doing which certain microbes ferment the extract under control. Through this treatment such substances that are toxic or harmful, e.g. allergens and other high-molecular substances, are broken down. Therefore, as a rule, our products can be used also by people otherwise allergic or hypersensitive to pollen.

This breaking down can easily be controlled with a gel-precipitation test according to Ouchterlony, at which the Cernitin™ extract is controlled against blood from rabbits treated with the pollen in question. During the fermentation high-molecular substances, that are difficult to absorb and often irritating, are reduced to low-molecular substances, i.e. each molecule contains less atoms, e.g. protein is reduced to peptides and amino acids. These low - molecular substances are harmless and can quickly be absorbed in the blood so that the body immediately can benefit by them. This is the reason for the quick effect of the Cernitin™ preparations and also an explanation to the fact that relatively small amounts are needed for a good effect.

Almost nothing gets lost, but the whole amount of Cernitin™ is active as distinguished from usual foodstuff or Synthetic substances of a more complicated composition. In those cases the body can sometimes have difficulties to utilize the substances, e.g. calcium and vitamin preparations. Even if large quantities are supplied, the body can have difficulties in utilizing necessary substances.

Some of the conditions determinative for the body's ability to utilize different substances are known. Thus, already more than 100 years ago, Justus von Liebig could phrase his classic "Minimum Law" in which he pronounced that very often a substance, from which is added too little, can be determining for how all added nourishment is absorbed. Thus it is possible to increase the body's ability to utilize supplied nourishment by providing for the body reasonable demands for nutrient substances of different kinds.

This can, however, many times be difficult, as we are creatures of habit and prefer to eat what we like, even if we thereby perhaps miss some substances that our body really need.

By a daily supply of Cernitin™ extract in Pollisport™ or Cernelle Special the body gets guaranteed all the substances necessary for life and it will also be possible for the body to utilize all nourishment in the food. The body can, thanks to Cernitin™, utilize vitamins and other important substances present in the daily food. In this way Cernitin™ normalizes the functions of the body and increases health and resistance against diseases.

