Contains:

**HOMEXAN-STIMUL CONCENTRATE (HSC)**
Hokovit’s unique combination of various yeast extract fractions and their mixing ratio promote growth of the desired lactic acid and bifidus bacteria flora in the digestive tract. This stabilization of the intestinal flora has not only positive effects on the animal’s health but also has an excellent effect on the early development of the digestive tract, especially on the growth of the villi in the rumen. Rumen villi that are well-formed constitute a protective mechanism in calves against the effects of acidification, because they ensure the rapid removal fatty acids. If the volatile fatty acids accumulate in the rumen at increased levels, the pH value decreases continuously and the rumen villi are damaged; this leads to subclinical acidosis. The risk is especially high when feeding animals high amounts of concentrates. HSC also reduces these risks. At the same time, digestion is stimulated so that more feed can be consumed and also better digested.

A further effect of the special yeast extracts in HSC is that they stimulate the immune system. On the one hand, this is due to the “ion-exchange effect”, which irreversibly binds toxic materials to the surface of the cell walls, thus taking the strain off the liver (decontamination) and facilitating the body’s defenses. On the other hand, the yeast extracts cause a constant stimulation of the body’s defenses, which recognize in them suspected pathogens.

Large quantities of special substances extracted from yeast in HSC are required when the cells of the body divide. It is, thus, obvious that optimal calf development and a high daily increase in weight is achieved by supplying the limiting yeast extracts through HSC.

High achievement is characterized by an increased cell-division rate. HSC supplies also the basic ingredients for a fast cell multiplication. Cells with an increased cell-division rate (faster growth) are beneficial for better growth and feed conversion as well for stabilizing the intestinal, liver and immune functions. At the same time, energy consumption drops as this effect of HSC is particularly apparent in the epithelium cells of the small intestine, the cells of the immune system and in the liver cells. This also leads to improved efficiency and utilization of all the nutrients absorbed.

**HOKOHERBS**
Natural herbs, which promote the appetite, an optimal fermentation of the feed in the digestive tract and out of this an obvious improvement of the health status, apparent in the brilliant coat of the animals.

**HOKOLYSAT**
This Hokovit development consists of branched-chain polypeptides, bioactive amino acids and peptides and multiple unsaturated fatty acids, as well as digestion-regulating and appetite-stimulating plant extracts and non-specific enzymes milled from plants. Hokolysat is mainly used in micro-nutrient products for young animals.

Due to the use of plant extracts, HOKOLYSAT contains a multiplicity of branched-chain polypeptides (BCP) and non-essential amino acids. These substances exert a positive action on the formation of muscle tissue and muscle development. The unique and multiple combination of fatty acids in HOKOLYSAT has a crucial effect on reducing the negative effect of stress reactions in animals. HOKOLYSAT helps reduce the action of stress hormones in animals. Less stress means more tranquil animals with better yields.

The digestion-regulating plant extracts deliver a multiple mix of poly- and oligosaccharides. They regulate the volume of the fecal mass and the intestinal transit and stimulate the beneficial bacteria by reducing the pathogen bacteria. They are good digestion regulators and also ensure a high efficiency of utilization of all nutrients absorbed, i.e., less diarrhea and digestive problems, improved feed conversion.

HOKOLYSAT contains more than 20 different enzymes milled from plants, such as glucanases, phytases, xylanases and amylases. They also contribute to the digestion of nutrients and better feed conversion.

**COLOSTRUM**
Pure, dried bovine colostrum of top quality, rich in colostral protective substances, increases the passive immune transfer in all newborn mammals. But even older and adult animals benefit from the addition of colostrum to their daily diet because of the variety of natural substances, which also act via the intestine: Immunoglobulins, blockers of harmful microorganisms, interferon, lactoferrin, lactoperoxidase, oligosaccharides, polypeptides, insulin-like growth factors, nucleotides.
AMINO ACID CHELATES iron, zinc, copper, manganese
A vast number of calves suffer from birth, at the time of stabling and during the rearing phase, from an undersupply of trace elements, particularly iron. The administering of conventional trace elements (oxides, sulphates) addresses this problem only insufficiently, as they are of low digestibility. If (due to the realization of the low digestibility of these trace elements) higher doses are given, it can result in lower digestibility of the total ration, reduced feed intake (palatability), digestive problems and problems for the environment caused by heavy metals. Trace elements in the form of chelates relieve the organism, prevent undesirable bacterial growth and are 3-4 times more effective than ordinary sources of trace elements. From the wealth of trace element proteinates, amino acid chelates and polysaccharide chelates available commercially, Hokovit products contain the most efficient and most acceptable for the various animal species.

HERB AND PLANT EXTRACTS
The Hokovit herb and plant extracts are manufactured from different raw materials and in an animal-specific manner. They consist, for example, of the following plant ingredients with the corresponding effects:
Tanning and bitter agents: reflex stimulation of the secretion of saliva, gastric juice and pancreas secretion protection of the gastrointestinal mucosa, anti-inflammatory.
Hot substances: reflex stimulation of the secretion of saliva, gastric juice and pancreas secretion, more peristaltic motions, antibacterial effects.
Mucous substances: protection of the gastrointestinal mucosa, absorption of pathogenic bacteria, anti-inflammatory.
Flavonoids: spasmylytic, anti-inflammatory, diuretic, enhanced secretion of bile, immunostimulation.
Saponins: improvement of absorption, reduction of ammonia ions.
Etheric oils: appetizing, better digestion, improved circulation, enhanced production of bile, relaxing and well-being.

VITAMINS AND AROMA SUBSTANCES
For more vitality and better appetite.