



## Clean label ingredients for solid oral dosage forms? Why not!

Ready-to-use ingredient premixes for the manufacturing of clean label products. Natural, organic and free of undesired excipients, such as titanium dioxide, silica, talc, magnesium stearate, palm oil, synthetic colors ...

## Film Coating

**BIOGRUND goes beyond the range of ingredients by delivering technical support for development and production of tablets & capsules.**

In general, clean label is a consumer driven movement, demanding a return to real food and transparency through authenticity. For nutritional supplements, this means that they should contain natural, familiar, simple ingredients that are easy to recognize, understand and pronounce.

Therefore, the industry has to look for new ingredients and solutions. No artificial excipients or synthetic chemicals are in demand for a consumer-friendly labeling. Always remember: Consumers and customers pay attention to the list of ingredients and are well informed. Clean label initiatives establish trust when consumers feel that their products are good for their health and good for the environment.

**BIOGRUND** offers market-driven solutions that are tailored to changing requirements and challenges. As a solutions provider, we gladly support you to replace excipients that are undesired.

From the beginning, we have been a member of the Clean Label Alliance, which was developed out of the increasing demand from consumers for cleaner labels on dietary supplements. Savvy consumers have made the connection between food as nutrition and dietary supplements as nutrition, and desire the same clean label as they have for food with dietary supplements.

However, as dietary supplement makers transition to clean labels, some are experiencing development and production challenges. Leaders within the dietary supplement industry joined forces to collectively serve producers seeking to develop or transition to clean label by providing support and problem-solving solutions. The purpose of the Clean Label Alliance is to offer assistance and guidance to dietary supplement companies by providing top-of-the-line resources and solutions to efficiently produce clean label supplements.

**BIOGRUND** offers tailor-made developments for your clean label formulation needs as well as troubleshooting support.

### **NutraPolish® Organic**

Fast soluble, clear coating, organic certified

For an improvement in appearance and finish of nutritional supplements (such as extracts, minerals or vitamins). Certified with USDA and EU-label for organic food. Free of: polymers, talc, titanium dioxide, palm oil, maltodextrin, synthetic plasticizers.

The ready-to-use coating formulation for oral solid dosage forms provides a simple and fast aqueous preparation of the powder compound and easy application of the suspension. For an immediate release profile. Coated tablets improve the packaging process because of better slip and reduced dust formation. The organic and natural formulas will support your clean labeling strategies (e.g. Non-GMO, Non-Allergen, certificates for organic food). The clear coating gives your product more brilliance and facilitates a better swallowability. For a more glossy tablet surface.



### **AquaPolish®**

Natural colored, free of titanium dioxide (TiO<sub>2</sub>)

A wide range of natural colored AquaPolish® film coating formulations without titanium dioxide and iron oxides are available. Results of light stability studies approved that the measured color deviations to the reference tablet (not exposed to sunlight) are within our specification of  $\Delta E < 3.50$ . Formulated with substitutes for whitening, it is possible to replace TiO<sub>2</sub> without losing the usual opacity and brightness on your product. Also free of talc, synthetic polymers and colors.

## Tableting

### CompactCel®

Dry binder, free of synthetics, natural/organic

Based on fine selected natural ingredients, this dry binder premix for direct compression supports clean label strategies for nutritional products. By using this premix compound, typical tableting excipients like Hydroxypropyl cellulose or Polyvinylpyrrolidone can be replaced in the core formulation.

CompactCel® is also available in some formulations which are certified with the USDA- and EU-label for organic food. Therefore, it is well suited for organic nutritional supplements. The mix of selected organic ingredients increases the hardness and improves the friability of the tablet as well as the compaction.



DE-ÖKO-039



### CompactCel® DIS

Disintegrant natural/organic

Based on natural and/or certified organic ingredients, this disintegrant premix for direct compression can be used for replacing synthetic excipients like crosslinked polymers, crosscarmellose sodium or sodium starch glycolate. It is suited for the use in tablet, capsule and granule formulations. To correspond to the requirements of a fast release dosage form, CompactCel® DIS enables a rapid break-up of solid oral dosage forms when they come into contact with moisture.



## Encapsulation

### CompactCel® LUB

Lubricant

The easy-to-use powder premix of natural ingredients decreases friction at the interface between tablet and die wall, reduces wear on punches and prevents sticking to punch faces. By eliminating magnesium stearate, which is often the cause of many problems with solid oral dosage forms, undesirable side effects can be reduced to a minimum. It can also be used as an alternative to stearic acid. The compound provides a good lubrication without influencing the requirements of the tablet. A fluent compression process will be achieved.

Also for the filling and closing of hard gelatin capsules it acts as an excellent lubricant to achieve a smooth filling process.

### CompactCel® MAB

Moisture/Oil absorbent

*Moisture absorbent:* Dry compound of additives for less problems due to humidity in the powder blend. Superior moisture absorbent properties to prevent clumping of the powder before and during the tableting or capsule filling process. Acts loosening and improves the flowability of the blend.

*Oil absorbent:* Dry compound of additives for oil absorption. The high absorbent properties are used to make oily substances suitable for the tableting or capsule filling process. Prevents clumping of the powder oil blend.

Depending on project requirements CompactCel® MAB can be based on synthetic ingredients or natural/organic food raw materials (silica free, for clean label).



### CompactCel® FLO

Flow aid, glidant, free of silicon dioxide

A separating agent which loosens up powder mixtures and improves their flowability. It replaces synthetic excipients like silicon dioxide – for a consumer-friendly label. CompactCel® FLO provides a clean funnel flow of the powder mass to be processed during both tableting process and capsule filling. A bridge formation during flow from hopper can be avoided. Formulations in natural or organic food quality available.



### BonuTab®

Premixed tablet/encapsulation formulation

Customized ingredient premix based on natural or organic ingredients. The fully formulated tableting/encapsulation dry powdered compound exists of e.g. filler, binder, glidant, lubricant, pigment/dye. These ingredients contain the necessary characteristics to produce a label-friendly and high-quality solid oral dosage form. Benefits: easy handling and processing, economic savings and higher productivity because it's a ready-to-use tailor-made system.



## General Information on BIOGRUND

Since 1999, **BIOGRUND** has been the specialist for the homogeneous mixing of excipients and carriers. With locations in Germany, Switzerland, America and Russia, we support the food supplement and pharmaceutical industry in the development, formulation and production of solid oral dosage forms. The tailor-made and ready-to-use special powder mixtures for film coating, sugar-coating, coloring and tableting enable optimum results in a short time. Easy, fast and reliable!

### Locations

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