

UltraPract® HP &

UltraPract® HC

NEW: Optimized
Enzyme Combinations



patent-
protected
enzyme profile

More flexibility with substrate application!

For a stable operation and **profitability of your biogas plant.**

UltraPract® HP and **UltraPract® HC** have been developed with the aim to provide more flexibility in substrate application. The enzyme activity profile is optimally adjusted to the conditions in biogas plants using a relevant share of manure. In addition, the enzymatic **acceleration factor AC** speeds up the degradation of substrate components that are difficult to ferment.

Field of application **UltraPract® HP**

- » Allows for an **industrial fertilizer content up to 15 %** of organic dry matter (oDM) e. g. approx. **20 % dung** or approx. **30 % cattle slurry**
- » Noticeably **increases substrate utilization**
- » Ensures **stable plant operation** without the formation of floating layers
- » Reduces the amount of **fermentation residue**

Field of application **UltraPract® HC**

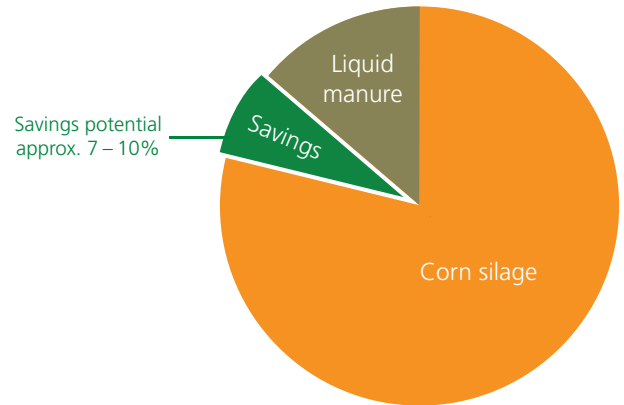
- » Allows for an industrial **fertilizer content up to 5 %** of dry organic matter (oDM) e.g. approx. **30 % pig manure**
- » Improves **stir-ability**
- » Removes **floating layers**
- » Increases biogas **plant performance**

UltraPract® HP

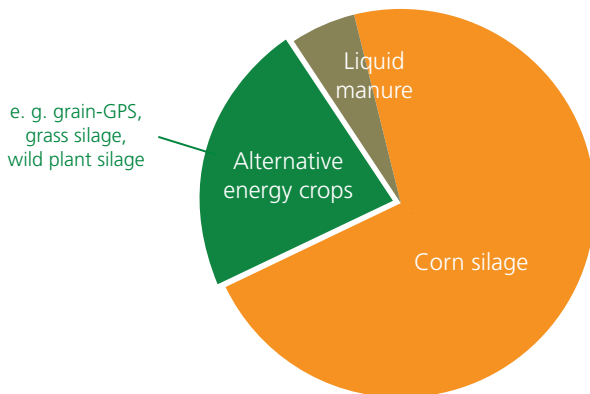
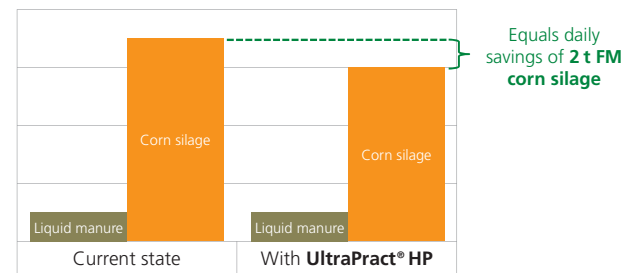
UltraPract® HP is ideally suited for a manure content > 10% of the oDM and FM* input. At constant output of the biogas plant, **UltraPract® HP** enables a reduction of the energy crop proportion by 7–10%. In addition, the proportion of farmyard manure in combination with **UltraPract® HP** can be increased to 15% of the oDM and FM* input in order to achieve a further reduction of the energy crop proportion in the substrate mix. **UltraPract® HP** increases and accelerates the utilization of manure, slurry and hard to degrade plant fibres in the biogas fermentation process, thereby increasing the biogas yield.

Substrate Savings

UltraPract® HP allows you to reduce substrate input by 7–10% without sacrificing performance in plants that use the manure bonus. The activity profile of **UltraPract® HP** takes into account higher shares of energy crop silages and integrates the innovative effects of the **AC Factor**.



Example: 500 kW plant at full capacity



UltraPract® HC

UltraPract® HC is suitable for plants with little or no application of manure. The optimized enzyme activity profile, supported by the **acceleration factor AC**, achieves noticeable substrate savings (> 5%) at constant system performance. At the same time, **UltraPract® HC** reliably prevents the build-up of floating layers and keeps the fermenter contents stirrable. **UltraPract® HC** enzyme activities are active and thermo stable up to 60°C over the relevant pH range (6–8).

Substrate Savings

The use of **UltraPract® HC** is particularly recommended if corn silage is supplemented by other energy crop silages (> 10% of oDM and FM*) and limited amounts of manure (up to 5% of oDM and FM*).

Take advantage of our service: We will work with you to find the best application for your biogas plant!

Biopract ABT GmbH

Head office

Magnusstraße 11
D-12489 Berlin
Phone: +49 (0)30 - 6670-2056

www.biopract-abt.de » E-Mail: info@biopract-abt.de

Office West

Max-Planck-Straße 3
D-42477 Radevormwald
Phone: +49 (0)21 95 - 9 29 76 92

Please note:

All information in this publication regarding the use of this product corresponds to the knowledge available at the time of printing. We reserve the right to make changes. Last update: MRZ 2019

* oDM = organic dry matter
FM = fresh matter

Photo credit: fotolia.com © Martin_P

