



# UltraSweep® C4

The ultimate formula C4 for the fermentation of plant-based problem substrates.



Patent  
pending



## UltraSweep® C4 – simply (dis)solves problems!

In order to ensure the economical operation of biogas plants, substrates selected based on cost reduction, sustainability and long-term availability are increasingly being used.

These include for example material from **landscape conservation**, fibre-rich **manure from animal farming**, residual material from the **grain harvest** as well as **fruit and vegetable cultivation**. In terms of efficient fermentability these are high-risk substrates as they reduce stirrability, tend to form floating layers and - depending on their composition - contain an increased proportion of foam-active substances, in particular proteins and certain mucilage. As a result, the plant is no longer able to perform at 100% of its capacity and thus operates uneconomically. By using innovative enzyme products from **Biopract ABT** you can take targeted countermeasures.

- » Facilitates **sliding and blending** of floating substrates.
- » Improves the **degradation** of fibrous substrates.
- » Prevents the **formation of floating layers**.
- » **Reduces deposits** on walls and in pipes.
- » **Lowers the formation of foams**.

# UltraSweep® C4: Functionality and Effect

**UltraSweep® C4** is based on extensive test series in the laboratory of Biopract GmbH and was optimized for the conditions in field use. The efficacy of the **innovative formula C4** was put to the test under particularly challenging conditions (stable manure based on rice straw and rice husks) and proved successful.

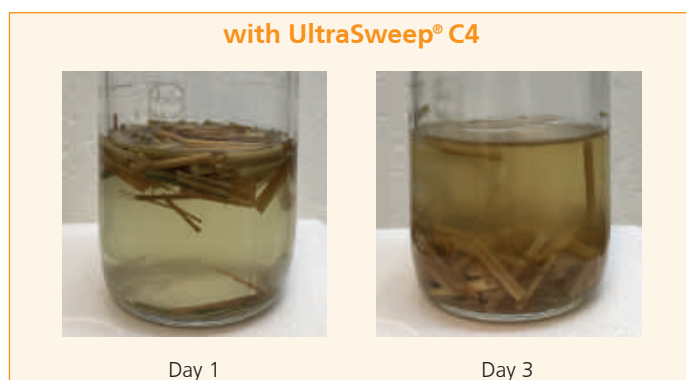
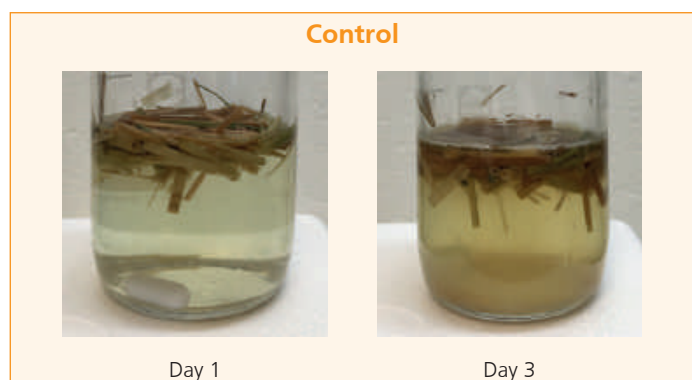
With this novel product **Biopract ABT** is helping to increase the use of agricultural residues for biogas production. These do not compete with food and animal feed - such as maize - and are therefore not only economically more attractive but also have a higher social acceptance.

## UltraSweep® C4 prevents floating of fibre components

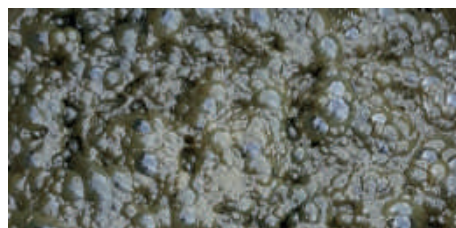
As a specialized product for substrates that tend to float, **UltraSweep® C4** uses the synergistic effects of fibre-dissolving enzymes and surface-active substances.

The **unique formula C4** ensures accelerated moistening of floating substrate particles and, as a result, faster sliding and blending in the fermenter. This effect facilitates the enzymatic primary breakdown of the plant fibre.

The **unique UltraSweep® C4** mode of action was documented in the laboratory and confirmed in the field. We will be happy to provide you with reference projects on request.



## UltraSweep® C4 lowers foam formation in the fermenter



The **innovative formula C4** not only causes an enzymatic de-polymerization of water-binding hemi-celluloses and degradation of structure-stabilizing molecules of the plant fibre, but also a reduced surface tension of the liquid phase. This effectively **lowers the formation of surface foam**. The working volume of the fermenter can be used 100% for energy production and will not be occupied by unwanted foam.

**UltraSweep® C4** was developed for plants that use high percentages of straw, manure and landscape conservation material.

**Biopract ABT GmbH**

Head Office

Alexander-Meißner-Str. 54  
D-12526 Berlin  
Telefon: +49 (0)30 - 6670-2056

Office West

Landwehr 99  
D-46514 Schermbeck  
Telefon: +49 (0)2853 - 4489 - 976

**www.biopract-abt.de** » E-Mail: [info@biopract-abt.de](mailto:info@biopract-abt.de)

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: JAN 2021

Picture credit title: stock.adobe.com © ksena32,  
© ExQuisine, © memorystockphoto, © lenscap50



**Biopract ABT**  
Angewandte Biotechnologie