



# ZYmaXX<sup>®</sup> 365

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**Invest in your profit**





## Optimum substrate fermentation

Biogas plants have become established as a sustainable business model for agriculture and an essential key component of the energy revolution in Germany. Demand for suitable substrates is increasing, and this has an impact on costs. It therefore makes all the more sense to invest in the performance capacity of your biogas plant.



### Invest in your profit!

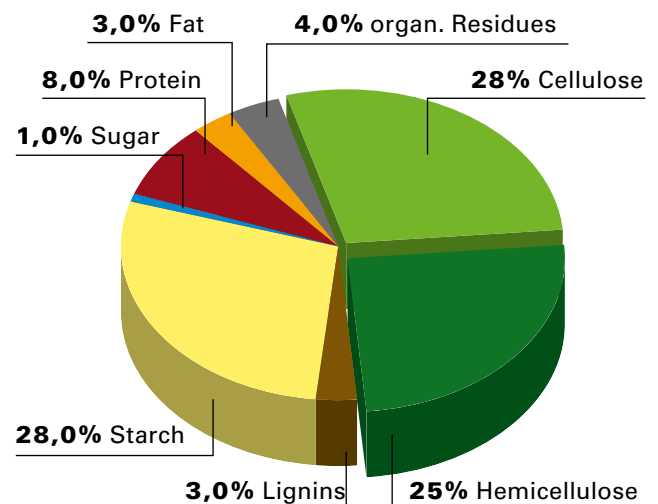
cost of maize silage	35,00 €/t	–	50,00 €/t
Potential savings	3,00 t/day	–	4,00 t/day
<b>Saving value</b>	<b>105,00 €/day</b>	–	<b>200,00 €/day</b>
minus operating costs <b>ZYmaXX® 365</b>			- 35,00 €/day

**Your profit approx. 25.000 €/year – 60.000 €/year**

500 kW facility, example calculation

With our **ZYmaXX® product range**, we offer enzyme compounds that generate more effective fermentation of the plant fibres such as cellulose and hemicellulose that are contained in the substrates, thanks to their unique, highly active combination of a range of different enzymes.

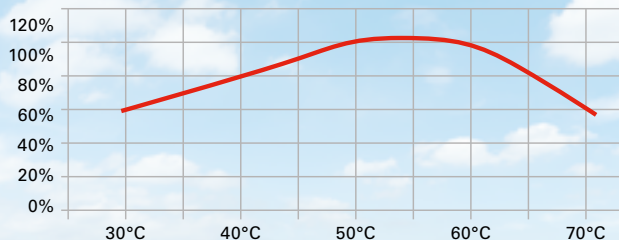
### Composition of maize silage (dry matter, according to DLG)



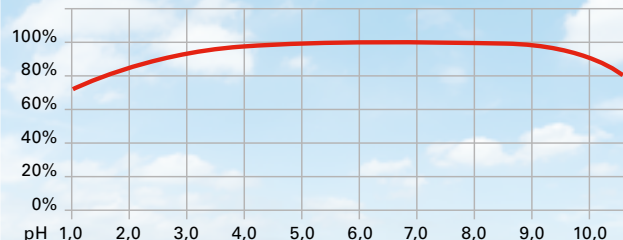
# ZYmaXX<sup>®</sup> 365

## The enzyme compound for daily use

Activity of ZYmaXX<sup>®</sup> as a function of the temperature in the fermenter



Activity of ZYmaXX<sup>®</sup> as a function of the pH value in the fermenter



Continually changing added substances due to a dependence on availability, yield quality and market price impacts the biological parameters in the fermenter.

For ZYmaXX<sup>®</sup> 365 therefore, we have developed specific and unique enzyme complexes that show the highest levels of activity compared to others even at high temperatures and with a wide pH spectrum of 3 to 9.

### Better decomposition – More biogas – Lower viscosity

In just the first few weeks, ZYmaXX<sup>®</sup> 365 significantly reduces viscosity in the fermenter. The fermenter content shows improved mixing. Floating layers disintegrate and do not reform later in the process when ZYmaXX<sup>®</sup> 365 is regularly added. The biogas plant consequently runs more consistently. Stresses on and wearing of moving parts such as stirring units and pumps are greatly reduced.

### Benefits when using ZYmaXX<sup>®</sup> 365

- ✓ **Also suitable as a starter concentrate**  
A powerful start for the optimisation of your biogas plant
- ✓ **Gas yield is enhanced from cellulose and hemicellulose-containing substrates**  
The costs of the ZYmaXX<sup>®</sup> 365 are already amortised from 2% higher levels of biogas and upwards
- ✓ **Significant savings when it comes to substrate costs**  
Amortisation of the costs for ZYmaXX<sup>®</sup> 365 start at savings of 1 tonne of silage per day (500 kW plant)
- ✓ **Dissolution of floating layers in the fermenter and the residue storage;**  
energy savings for pumps and stirring units; less wear overall
- ✓ **Broad temperature spectrum**  
Suitable for both mesophile and thermophile plant operation
- ✓ **High activity under a broad pH spectrum of between 3 and 9, even at extremely high pH values**
- ✓ **Simple, safe handling**  
of this liquid product; good storage properties; low dosages required



# ZYmaXX<sup>®</sup> und TREmaXX<sup>®</sup>

## Strong together

Our **ZYmaXX<sup>®</sup>** products enhance the formation of organic acids in the hydrolysis phase, thus increasing biogas production.

Also available as the **ZYmaXX<sup>®</sup> 365 Bioline**, listed in the FiBL and produced without the use of genetic engineering.

In cases of acute micronutrient deficits, our **TREmaXX<sup>®</sup>** products, which have been specifically tailored to meet a range of different needs, quickly and efficiently deal with the problem and support methane production.

The combination of **ZYmaXX<sup>®</sup>** and **TREmaXX<sup>®</sup>** in biogas plants leads to stable plant operation at a very high quality level.



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