

# DIGEST P3™

Harness the  
**potential**  
of biogas



## Enzymes in actions

DIGEST P3™ is an enzyme complex, cultured through a process known as solid state fermentation, that improves the profitability of anaerobic digestion by optimising biogas productivity.

Digest P3 works in synergy with biogas generating microflora in your plant to utilise feedstock components that were previously inaccessible through digestion. This increase in readily available energy and protein for the digester microflora leads to efficiency in biogas formation. Digest P3 allows for flexibility in feedstock formulation through the inclusion of byproducts and alternative raw materials.

Alltech works with each client to develop a unique, personalised plan for their plant. With full access to our in-house scientists and laboratory facilities, we provide ongoing support and follow-up. Speak to your local Alltech representative to learn more about how we can work with you to further enhance the output of your plant.



## Benefits of Digest P3



Increases biogas and methane production  
**by up to 15%**



Retains output with reduced substrates



Reduces viscosity and parasitic load



Stabilises biogas production with substrate variation



Reduces floating layers

## Flexibility in optimising your plant

Digest P3 customers are successfully optimising the flexibility offered by this technology. Many are reducing their feedstock inputs and maintaining gas output, while others are actively increasing biogas output without raising feedstock volumes.

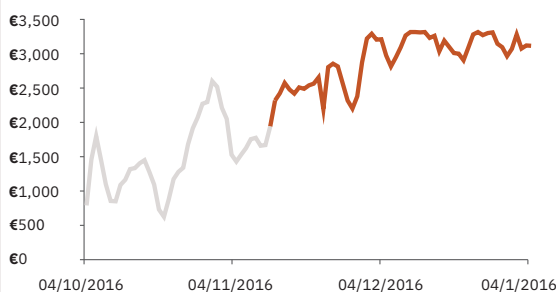


### Increase electricity production

**€600 per day**

Adding Digest P3 to your plant can increase electricity production by 12%, resulting in an extra €600 per day!

#### Effect of Digest P3 on electricity production

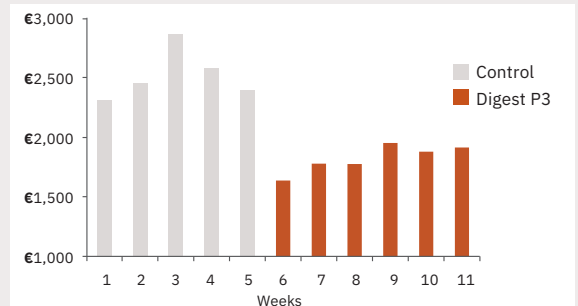


### Decrease substrate feed costs

**28% per day**

Using Digest P3 in your biogas plant can reduce the substrates required to reach maximum output, resulting in up to 28% reduction in feed costs.

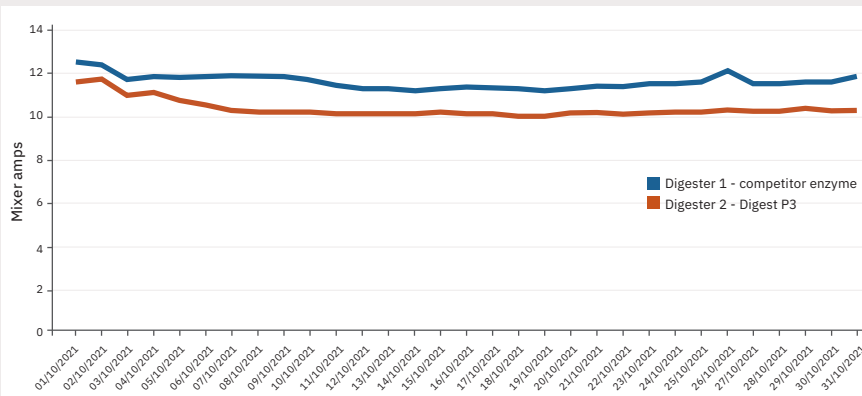
#### Effect of Digest P3 on cost of weekly substrates fed



### Decrease viscosity and parasitic load

Digest P3 outperforms other biogas enzymes, improving digestion, reducing viscosity and reducing parasitic demand from mixers. This gives opportunities to reduce process water inputs and increase production from feedstock.

#### Comparison of average amps



## Testimonials

*We run a 500kW CHP and we also upgrade about 75% of the raw biogas produced for the gas grid. The plant is fed with energy crops and manures. We started using the Digest P3 enzymes from Alltech in 2019 and one of the most obvious benefits was that it reduced viscosity in the digesters. This meant that we could reduce our maize requirements and increase the use of hybrid rye. Today we still use Digest P3 and we can now use double the amount of hybrid rye compared to before.*

**Andy Saunders,**  
AD Plant Manager Future Biogas, Burton Agnes Renewables Ltd

*As biogas operators and consultants, we work on a variety of different biogas plants. In the food waste sector we have seen for ourselves how effective Digest P3 has been, in degrading crusts and floating layers. Digest P3 has helped improve the biological stability, especially on sites where they receive variations in feedstock.*

**Ricky Maylin,** Director, ONM Energy Ltd