RONOZYME® MultiGrain – The flexible enzyme in the right form

The New RONOZYME® MultiGrain is an innovative, thermostable, multicomponent carbohydrase from DSM. It contains a range of different enzyme activities, with the main xylanase and β-glucanases being enhanced by further side activities. In cereals, starch is stored in the endosperm. To access and utilize this starch the animal must break down the cell walls. These are mainly made up of arabinoxylans and β-gluccans, but the exact composition varies from cereal to cereal. Wheat contains mainly arabinoxylans, requiring a xylanase enzyme to degrade the cell walls, whereas barley contains high levels of β-glucans which cause high intestinal viscosity. Given the complexity of carbohydrates in feed, often more than one carbohydrase enzyme activity will be required to improve the release of entrapped nutrients and reduce digesta viscosity.

In such circumstances, RONOZYME® MultiGrain can offer a cost effective solution.

RONOZYME® MultiGrain benefits from the application of the latest coating and formulation technology, making it heat-stable through feed manufacture and dust free, ensuring a high proportion of activity reaches the animal.

Comparative testing has shown that RONOZYME® MultiGrain is the most thermostable multicomponent enzyme on the market today. RONOZYME® MultiGrain delivers:

- Improved energy utilization from cereals
- Stability – thermostability through feed manufacture, and zero dust formulation
- High performance
- Reduced production cost

Growing broiler performance in a wheat/barley-based diet

<table>
<thead>
<tr>
<th></th>
<th>Control</th>
<th>RONOZYME® MultiGrain 100g/T</th>
<th>Competitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bodyweight at day 35 (g)</td>
<td>2020</td>
<td>2040</td>
<td>2060</td>
</tr>
<tr>
<td>FCR at day 35</td>
<td>1.74</td>
<td>1.66</td>
<td>1.64</td>
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</tbody>
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RONOZYME® MultiGrain is an innovative thermostable multicomponent carbohydrase, very efficacious and reliable to be used in various types of diet and species. This allows very flexible formulation resulting in optimal performance and substantial feed cost savings.