HOSTAZYM® P (Phytase)

HOSTAZYM® P 5000 G/HOSTAZYM® P 10000 G (Granulate)
HOSTAZYM® P 5000 PF /HOSTAZYM® P 10000 PF (Coated)
HOSTAZYM® P 5000 L/HOSTAZYM® P 10000 L (Liquid)
(Phytase)

COMPOSITION

<table>
<thead>
<tr>
<th>Content</th>
<th>5000 G</th>
<th>10000 G</th>
<th>5000 PF</th>
<th>10000 PF</th>
<th>5000 L</th>
<th>10000 L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min 6-phytase activity per gram/ml</td>
<td>5000 FTU*</td>
<td>10000 FTU*</td>
<td>5000 FTU*</td>
<td>10000 FTU*</td>
<td>5000 FTU*</td>
<td>10000 FTU*</td>
</tr>
</tbody>
</table>

* 1 FTU is the amount of an enzyme which liberates 1 μmol of phosphate from 0.0051 mol/L sodium phytate solution at 37°C and pH 5.5.

MODE OF ACTION

Phytase is an enzyme which degrades phytic acid. The main action of phytase is hydrolysis of the phosphate groups from the phytic acid molecule, so free phosphate molecules become available for the animal to be uptaken in the small intestine. Phytic acid as such cannot be digested by the animal. Besides containing Phosphate, phytic acid forms insoluble complexes with protein, starch, fatty acids and ions such as calcium, magnesium and iron. The bound nutrients in this complex are unavailable for the animal's digestive tract. For this reason phytic acid is determined as an anti-nutritional factor. When phytase has hydrolysed at least 2 phosphate groups from the phytic acid, the phytic acid is no longer capable of forming this complex with nutrients. Phytic acid is found in many vegetable raw materials used in feed, such as corn and corn products, wheat, legumes, soya bean and other grains. The use of phytase in feed reduces the need for adding inorganic Phosphorus (from MCP or DCP) to the feed. Also it eliminates the forming of insoluble complexes and thus improves the utilization of nutrients.

USE

The product is used as an additive in combined feedstuffs minimal containing 0.23% of Phytin bound Phosphorus. It is used in feeds for all categories of poultry and pigs with the purpose of degrading the phytate phosphorus and its subsequent digestion by the animals, as well as improving the utilization of other nutrients, such as proteins, calcium, microelements and amino acids.

CONTRAINdications

Not established.

MODE OF ADMINISTRATION

To be used in feed after full mixing with compound feeding stuff at the recommended dosage.
TARGET SPECIES

Pigs and poultry.

<table>
<thead>
<tr>
<th>Species</th>
<th>Min. activity per kg of complete feedingstuff</th>
<th>Recommended inclusion rate, g/ton feed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Hostazym® P 5000 G</td>
</tr>
<tr>
<td>Pigs</td>
<td>500 OTU/g</td>
<td>100</td>
</tr>
<tr>
<td>Broiler chickens</td>
<td>500 OTU/g</td>
<td>100</td>
</tr>
<tr>
<td>Layers</td>
<td>250 OTU/g</td>
<td>50</td>
</tr>
</tbody>
</table>

SIDE EFFECTS

Not applicable.

WITHDRAWAL PERIOD

Not applicable.

STORAGE

To be stored in the original packaging, well closed, in a dry place at room temperature.

PACKAGING

Multi-layer paper bags with internal polyethylene bag of 20 kg.

WARNING

May cause sensitization by inhalation. Wear personal protective devices such as particle filter mask, rubber gloves, safety glasses and protective clothing while handling the product.