Valkerase is a unique keratinase enzyme that hydrolizes keratin peptide bonds in feathers, producing higher quality, less expensive feather meal. 

**Advantages for Feather Meal Processors**

- Reduces cooking time and temperatures
- Increases processing productivity
- Can be used in batch or continuous processing
- Reduces processing odor
- Creates more consistent, higher quality feather meal

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**Batch Processing Parameters**

- 1.5 kg Valkerase Dissolved in 10-15 L Water
- 1000 kg wet by-product (55% dry)
- Incubation 55°-60°C for 50 min
- Cooking 120°-135°C for 1.5-2 Bars in 20 min
- Drying and Grinding for 190 min

Total processing time is 260 minutes.

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**Lower Cooking Temperature, Less Processing Time**

Graph showing lower cooking temperatures and reduced processing time with Valkerase compared to without.

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Advantages for Feather Meal Users

- Conserves amino acid content, improving digestibility
- Improves body weight gain and feed conversion rate
- Reduces feed cost by allowing higher inclusion rate

<table>
<thead>
<tr>
<th>Conserves Amino Acids, Improves Digestibility</th>
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<tbody>
<tr>
<td>Trials</td>
</tr>
<tr>
<td>75% feathers</td>
</tr>
<tr>
<td>10% meat waste</td>
</tr>
<tr>
<td>15% blood</td>
</tr>
<tr>
<td>90% feathers</td>
</tr>
<tr>
<td>10% blood</td>
</tr>
<tr>
<td>100% feathers</td>
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<tr>
<td>100% feathers</td>
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<td>C. Parson</td>
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Environmental Advantages

- Efficiently converts feather waste to low cost, good quality source of protein for animal production
- Processing feather meal with Valkerase requires less energy and reduces odor pollution

Product Specifications:

- Powder form
- 25 kg bags
- 24 month shelf life from date of manufacture