

	<b>PRODUCT DATA SHEET</b> <b>Data sheet for individual feed material of the positive list</b> <b>ActiProt® grain – E 106, E 116, E 126</b>	Sheet: 1 of 2 Version 12, 09.08.2011 Description: <b>PDB ActiProt Getreide en</b>
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Manufacturer	AGRANA Bioethanol GmbH Werk Pischelsdorf, industrial estate, A-3435 Pischelsdorf																																															
Feed material / product area	<b>ActiProt® grain</b>  <b>mash</b> (5.05.01 of the positive list) 9th edition	 <b>Suitable for the production of GM-free food</b> <b>Supervised by agroVet GmbH</b>																																														
Product description	A by-product derived from the production of alcohol by means of distilling a mash consisting of one or more of the following compounds: wheat, corn, triticale, barley or other sugar-containing substances. The finished product is made by drying the entire solid residues of the process.  Appearance: dark brown pellets      Odour, taste: characteristic, slightly sour																																															
Information about the production process	The ground seeds are broken down by a combination of heat and enzymatic activity. During the subsequent fermentation process, the sugar released as a result is converted by yeast into alcohol. The alcohol from the fermented pulp is separated off by means of distillation leaving a mash that is evaporated, dried, pelleted and cooled in a series of production steps. The yeast from the fermentation process remains in the finished product.																																															
Processing agents	Enzymes are used to break down the starch. The fermentation process uses only yeast strains that have not been genetically modified as defined under §4, Z3 GentechnikG, BGBl 510/1994.																																															
Information on constituents  Average analysis values in relation to fresh weight [g/kg]	<table border="0" style="width: 100%;"> <tr> <td>Bulk density</td> <td style="text-align: right;">approx. 550 g/l</td> </tr> <tr> <td>Dry matter</td> <td style="text-align: right;">min. 88,0 %</td> </tr> <tr> <td>Crude protein</td> <td style="text-align: right;">min. 30,0 %</td> </tr> <tr> <td>Water content</td> <td style="text-align: right;">12.0 %</td> </tr> <tr> <td>Crude protein</td> <td style="text-align: right;">330</td> </tr> <tr> <td>Crude ash</td> <td style="text-align: right;">41</td> </tr> <tr> <td>Crude fibre</td> <td style="text-align: right;">72</td> </tr> <tr> <td>Crude fat</td> <td style="text-align: right;">75</td> </tr> <tr> <td>Usable XP (nXP-beef)</td> <td style="text-align: right;">250</td> </tr> <tr> <td>UDP</td> <td style="text-align: right;">45 %</td> </tr> <tr> <td>N-balance in the rumen (RNB)</td> <td style="text-align: right;">+10</td> </tr> <tr> <td>Calcium</td> <td style="text-align: right;">1,0</td> </tr> <tr> <td>Potassium</td> <td style="text-align: right;">10.3</td> </tr> <tr> <td>Phosphor</td> <td style="text-align: right;">8.3</td> </tr> <tr> <td>Magnesium</td> <td style="text-align: right;">3.2</td> </tr> <tr> <td>Lysine</td> <td style="text-align: right;">5</td> </tr> <tr> <td>Cystine</td> <td style="text-align: right;">5</td> </tr> <tr> <td>Methionine</td> <td style="text-align: right;">4</td> </tr> <tr> <td>Threonine</td> <td style="text-align: right;">8.5</td> </tr> <tr> <td>Tryptophan</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Dairy cow (NEL)</td> <td style="text-align: right;">7.0 MJ/kg</td> </tr> <tr> <td>Fattening cattle (ME)</td> <td style="text-align: right;">12.0 MJ/kg</td> </tr> <tr> <td>Pork (ME)</td> <td style="text-align: right;">12.0 MJ/kg</td> </tr> </table> <p>All values indicated are approximate and are subject to raw material fluctuations; the actual crude proteine content is listed in the shipping document.</p>		Bulk density	approx. 550 g/l	Dry matter	min. 88,0 %	Crude protein	min. 30,0 %	Water content	12.0 %	Crude protein	330	Crude ash	41	Crude fibre	72	Crude fat	75	Usable XP (nXP-beef)	250	UDP	45 %	N-balance in the rumen (RNB)	+10	Calcium	1,0	Potassium	10.3	Phosphor	8.3	Magnesium	3.2	Lysine	5	Cystine	5	Methionine	4	Threonine	8.5	Tryptophan	3	Dairy cow (NEL)	7.0 MJ/kg	Fattening cattle (ME)	12.0 MJ/kg	Pork (ME)	12.0 MJ/kg
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Undesirable substances as part of risk-oriented self-monitoring:	Adherence to the applicable limits according to feed material regulation 2010 as amended or EU Directive 2002/32/EG as amended controlled at regular intervals.																																															

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Information on shelf life, storage and transport:	Cool, dry storage: at least 6 months Delivery form: in bulk (E 106: Pellets, E 116: mealy), BigBag (E 126: 800 kg)
Application/use	AGRANA produces ActiProt® grain in accordance with the latest findings of the feed technology. ActiProt® grain is dried indirectly under the best possible conditions and is used as single protein feed.
Safety instructions	ActiProt® grain is biodegradable and does not require any special safety precautions when handled or in transit.

Customs tariff number: 2303 3000

QS-ID: 4048473049542 GMP approval: PDV

The product conforms to feed regulation 2010, BGBl. II no. 316/00 as amended

All information is based on our analyses and are to be understood as general recommendations and suggestions. We recommend that you test our products for suitability yourself.

**Sales: AGRANA Stärke GmbH**

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Company register court: commercial court Vienna, FN 252477s, UID: ATU 58198337

**Flow sheet product flow ActiProt® grain**

