

## Product Catalogue of Standard Diets



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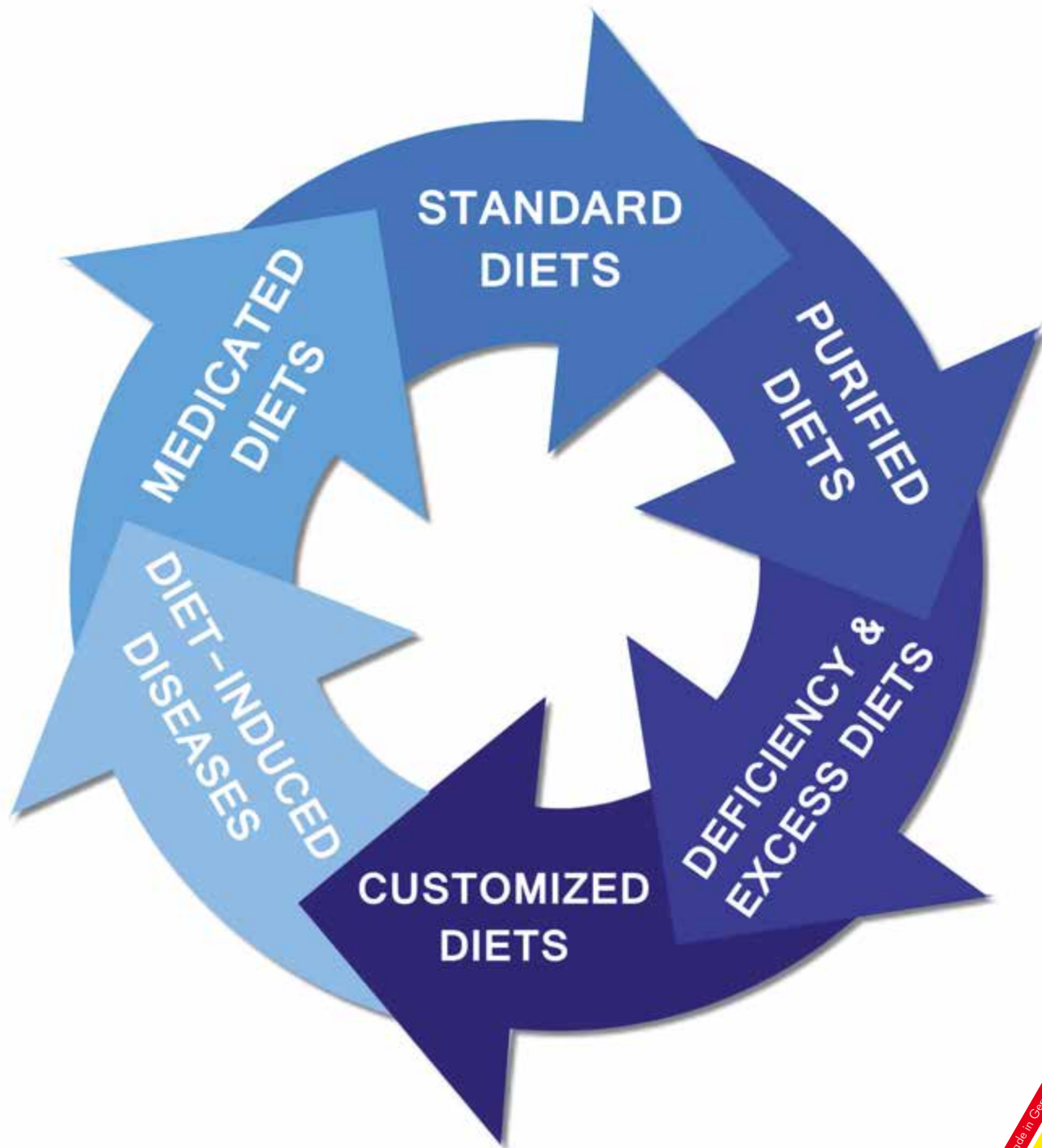


**altromin**  
International

# Standard Diets & Purified Diets







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# Medicated Diets for Laboratory Animals



## GMP - ACCREDITATION according to §13 German Drug Law

Altromin is accredited according to Good Manufacturing Practice by the Ministry for Nature, Environment and Consumer Protection (LANUV, Germany). Therefore, Altromin is permitted to produce veterinary pharmaceuticals, particularly medicated animal feeds in compliance with §13 and §56 German Drug Law. The 13<sup>th</sup> revision of German Drug Law associated with harmonization of European legislation required an enhancement of Altromin's GMP certification. On completion of putting up a new laboratory, after equipment qualification and validation a detailed GMP audit to check quality management documentation and procedures as well as engineering, construction and production flow was performed by the responsible authority. A continuous compliance with the terms of European GMP guideline was confirmed by the competent officials. Altromin has been certified and approved for production of veterinary pharmaceuticals.

Inside the range of biomedical research, it is sometimes necessary to treat a huge quantity of laboratory animals. Medicated animal diets are the best solution to administer a drug mixed into a standard diet. This option is an easy-to-use and manageable possibility for animal keepers and veterinarians. Animals do not have to be adjusted to another animal feed due to application of traditionally standardized high-quality diets from Altromin.

We are very pleased to be able to offer you this special service. For all questions and scientific customer advisory services, please do not hesitate to contact our scientific staff.

## LEGAL REQUIREMENTS

for Manufacturers & Responsible Veterinarians

Production and distribution of medicated animal feeds is strictly regulated by law. Since the year 2005, European administration has been sharpening law according to European GMP guideline. The attending veterinary physicians as well as accredited manufacturers are liable to stricter regulatory controls to provide evidence for transactions with veterinary pharmaceuticals.

Please note:

- Production of medicated feeds is incumbent upon pharmaceutical companies which are accredited in compliance with §13 German Drug Law.
- Manufacturing orders given by veterinarians to producers of compound animal feedstuffs is illegitimate. Pharmaceuticals have to be prescribed to the pharmaceutical company.
- With few exceptions, only released drug premixes are free to use for medicated feeds (§56 Drug Law).
- Veterinarians are entitled to obtain pharmaceutical premixes but are not allowed to deliver it to manufacturers.
- Before dispensing and putting into circulation of ready-to-use veterinary pharmaceuticals, a qualified person (approved pharmacist) has to check and verify the pharmaceutical quality. Release results on basis of documentation and analytical verification of final concentration inside the finished product.
- Medicated animal feeds have to be delivered directly to the responsible veterinarian or the supervised animal facility, respectively.

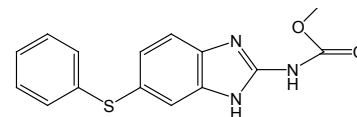


## TREATMENT OF OXYURIASIS?

Medicated Animal Feed with Fenbendazole



Fenbendazole is a broad-spectrum anthelmintic which is applied to treat oxyuriasis, an involvement due to endoparasites such as nematodes and cestodes. Fenbendazole has an effect as microtubule inhibitor and harms the cytoskeleton of parasites. The worms die and will be excreted in faeces. By specifically damaging the parasitic metabolism, the substance has an ovicidal effect, too.



Methyl-5-(phenylthio)-2-benzimidazolecarbamate  
Chemical Structure of Fenbendazole

Usually, fenbendazole is well-tolerated but the drug has a slow effect. Therefore, a sufficient contact time to the parasite is required. Fenbendazole will marginally be resorbed inside the intestine, hence a considerable and also metaphylactical medication is applicable. Medical treatment of an animal population using medicated animal feeds is unspecific and the risk of reinfection of treated animals through invasive animal-animal communication is high. Drug application should be done over a long period including temporary interruptions. Addition of 50, 100 and 150ppm of fenbendazole is possible, whereby an effective dose of 150ppm is used for feeds which are designated for autoclavation, only. Heat treatment effects a reduction of 20 up to 40% of the active ingredient. Following basic diets are available with fenbendazole:

- #1310 Rats/Mice, Breeding Diet
- #1320 Rats/Mice, Maintenance Diet
- #1410 Mice, Breeding/Maintenance Diet

# TPF - Totally Pathogen Free Diets

Our scientists and technologists have developed a completely new manufacturing method which effectively reduces the microbiological germ status comparable to autoclaved or irradiated feedingstuff. TPF is particularly suitable for use inside of SPF-barriers or areas where a strictly abacterial status is needed. Using a modern double vacuum packaging, the risk of recontamination can be eliminated. TPF animal feed is available as high standardized breeding and maintenance diets for rats and mice as 10mm pellets.

The advantages of TPF at a glance:



- Time and cost-savings due to elimination of autoclaving and irradiating process
- No changes in chemical and nutritive characteristics as an effect of heat
- 30% cheaper than irradiated animal diets
- Safety - TPF will be delivered with a batch-related microbiological report
- Sterile, double vacuum packaging avoids recontamination
- Upper foil can be removed to channel the packages into a barrier e.g. via dip tank
- 12 months guaranteed minimum durability
- Lightweight, manageable packages in 5 kg, 2 packages per unit
- Standardized breeding and maintenance diets in well-known Altromin quality

To fulfill the special requirements of biomedical research, especially the increasing quantity of transgenic animals, with immediate effect Altromin provides the effective TPF diets for (transgenic) mice as well as for nude rats and nude mice, too. The compositions of the diets are specially adjusted accordant to nutritive requirements of these animals and which are characterized by a higher demand on energy. For usage inside of SPF barriers, we take care of a strictly germ-free status of our TPF diets - that means cost and time-savings for the user because irradiation or autoclavation is not necessary any longer!

Using a highly innovative manufacturing method, (pathogen) germs and spore-forming units are eliminated during the production process. The diets are packaged under controlled aseptic conditions. A batch-related microbiological certificate of analysis is inclusive! An assimilation of the animals is not necessary since the composition as well as nutritive values are in accordance to traditional Altromin diets.

Following diets are available as TPF:

<b>1310 TPF</b>	Breeding Diet for Rats and Mice
<b>1320 TPF</b>	Maintenance Diet for Rats and Mice
<b>1410 TPF</b>	Breeding / Maintenance Diet for (Transgenic) Mice



# Diet-Induced Obesity & Adjusted Calories Diets

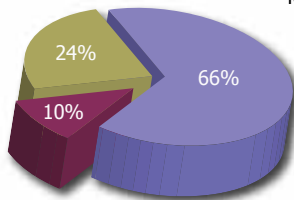


## High-Fat Diets up to 42% Crude Fat (70% kcal% Fat)

Rodent Purified Diet used for Obesity & Diabetes Research. Available as **10mm pellets!**

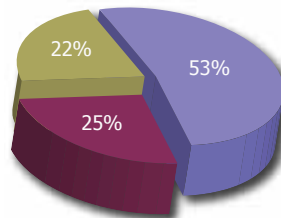
Adjusted Calories Diet - 10% kcal% Fat

ME 14.6 MJ/kg



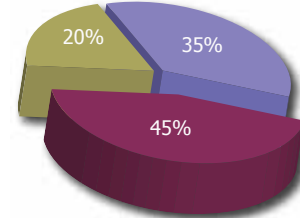
Adjusted Calories Diet - 25% kcal% Fat

ME 15.9 MJ/kg



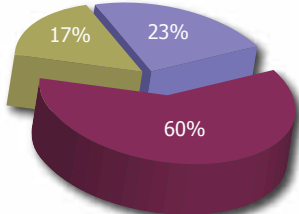
Adjusted Calories Diet - 45% kcal% Fat

ME 18.4 MJ/kg



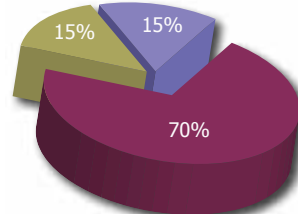
Adjusted Calories Diet - 60% kcal% Fat

ME 21.1 MJ/kg



Adjusted Calories Diet - 70% kcal% Fat

ME 23.5 MJ/kg



Legend:

Fat

Protein

Carbohydrates

ME Metabolizable Energy

# Biological Figures and Facts of Laboratory Animals

	MOUSE	RAT	SYRIAN GOLDEN HAMSTER	GUINEA PIG	RABBIT	DOG	CAT
<b>BODY WEIGHT</b>	20 – 35 g max. 50 g	250 – 600 g	100 – 120 g max. 180 g	M 1000 – 1200 g F 600 – 800 g	1 – 7.5 kg depending on species	10 – 25 kg	M 3 – 7 kg F 3 – 4 kg
<b>BLOOD HEAT</b>	36 – 38°C 96.8 – 100.4°F	37.5 – 38.5°C 99.5 – 101.3°F	35.5 – 37.4°C 95.9 – 99.3°F	37.9 – 39.7°C 100.2 – 103.5°F	38.5 – 40°C 101.3 – 104°F	37.5 – 39°C 99.5 – 102.2°F	38 – 39°C 100.4 – 102.2°F
<b>SEXUAL MATURITY</b>	M 28 – 35 days F 28 – 49 days	50 – 72 days	M 6 – 7 weeks F 4 – 6 weeks	M 56 – 70 days F 28 – 35 days	approx. 100 days	M as of 6 months F as of 5 months	M 6 – 7 months F 8 – 9 months
<b>BREEDING MATURITY</b>	56 – 70 days	90 – 100 days	8 – 10 weeks	3 – 5 months as of 5th month	approx. 180 days	as of 12 months	12 – 15 months
<b>RUT CYCLE</b>	every 4 – 5 days approx. 13 hours	every 4 – 6 days approx. 9 – 20 hours	every 4 days approx. 4 – 23 hours	13 – 20 days approx. 6 – 15 hours	irregular	2 times a year 3 weeks in heat	Jan – Sep in heat every 4 – 6 weeks
<b>GESTATION TIME</b>	18 – 21 days	20 – 23 days	15 – 16 days	59 – 72 days	23 – 34 days	60 – 67 days	57 – 71 days
<b>LITTER SIZE</b>	3 – 12 animals max. 20	6 – 12 animals max. 20	3 – 16 animals	3 – 4 animals max. 7	3 – 9 animals	5 – 6 whelps	1 – 8 animals
<b>WEANING AGE</b>	18 – 21 days	18 – 21 days	18 – 21 days	approx. 21 days	42 – 56 days	6 – 8 weeks	6 – 8 weeks
<b>WEANING WEIGHT</b>	8 – 14 g	35 – 50 g	20 – 55 g	165 – 240 g	not specified	not specified	approx. 600 g
<b>LIFE SPAN</b>	1.5 – 2 years max. 3 years	M max. 3.5 years F max. 2.7 years	approx. 2 – 3 years	6 – 8 years	5 – 7 years max. 14 years	10 – 15 years	9 – 14 years
<b>FEED INTAKE</b>	3 – 6 g daily	12 – 20 g daily	8 – 18 g daily	30 – 35 g daily	40 g/kg body weight	2 – 3% of body weight	80 – 100 g daily
<b>WATER INTAKE</b>	4 – 7 ml daily	15 – 35 ml daily	7 – 15 ml daily	50 – 100 ml daily	60 – 350 ml daily	800 ml daily	200 ml daily
<b>EXPULSION OF URINE</b>	1 – 3 ml daily	10 – 15 ml daily	6 – 12 ml daily	15 – 75 ml daily	50 – 500 ml daily	approx. 200 ml daily	50 – 120 ml daily

## Recommended climatic environmental requirements:

<b>TEMPERATURE</b>	20 – 24°C 68 – 75.2°F	18 – 24°C 64.4 – 75.2°F	19 – 23°C 66.2 – 73.4°F	18 – 23°C 64.4 – 73.4°F	15 – 19°C 59 – 66.2°F	15 – 21°C 59 – 69.8°F	18 – 22°C 64.4 – 71.6°F
<b>RELATIVE HUMIDITY</b>	50 – 70%	50 – 70%	45 – 70%	50 – 70%	50 – 70%	50 – 70%	40 – 70%

	EGRET MONKEY	RHESUS MONKEY	TREE SHREW	MARMOSET	MINIPIG	QUAIL
<b>BODY WEIGHT</b>	M 4 – 9 kg F 2 – 6 kg	M 6.5 – 12 kg F 5.5 kg	50 – 210 g	300 – 400 g	20 – 30 kg	M 100 – 140 g F 110 – 160 g
<b>BLOOD HEAT</b>	37 – 40°C 98.6 – 104°F	36 – 40°C 96.8 – 104°F	37°C 98.6°F	35.4 – 39.7°C 95.7 – 103.5°F	38 – 40°C 100.4 – 104°F	approx. 42.2°C approx. 108°F
<b>SEXUAL MATURITY</b>	M 4.5 years F 3.5 years	M 4.5 years F 5.5 years	2 months	9 – 12 months	4 months	clutch maturity: 6 weeks
<b>BREEDING MATURITY</b>	not specified	4 – 6 years	not specified	18 – 24 months	5 months	approx. 300 eggs annually
<b>RUT CYCLE</b>	31.3 ± 1.5 days	23 – 33 days	not specified	28 days	19.5 days. 2.9 days rut period	not specified
<b>GESTATION TIME</b>	155 – 193 days	3 – 6 months	45 – 55 days	144 ± 2 days	113 – 114 days	offspring duration: 16 – 17 days
<b>LITTER SIZE</b>	1 animal	1 animal	2 – 4 animals 2 – 3 litters	2 – 3 animals	5 – 8 piglets	not specified
<b>WEANING AGE</b>	3 – 6 months	3 – 6 months	30 days	6 – 12 weeks	42 – 56 days	not specified
<b>WEANING WEIGHT</b>	not specified	not specified	not specified	not specified	not specified	not specified
<b>LIFE SPAN</b>	15 – 25 years max. 38 years	approx. 30 years	9 – 12 years	10 – 16 years	not specified	approx. 6 years
<b>FEED INTAKE</b>	not specified	50 – 210 g daily	not specified	approx. 70 g daily	0.5 – 2 kg daily approx. 2–3% of body weight	14 – 18 g daily
<b>WATER INTAKE</b>	not specified	250 ml daily	not specified	approx. 40 g daily	fresh water ad libitum	20 – 30 ml daily
<b>EXPULSION OF URINE</b>	not specified	not specified	not specified	not specified	not specified	not specified

**Recommended climatic  
environmental requirements:**

<b>TEMPERATURE</b>	not specified	18 – 21°C 64.4 – 69.8°F	22 – 26°C 71.6 – 78.8°F	20 – 30°C 68 – 86°F	15 – 25°C 59 – 77°F	not specified
<b>RELATIVE HUMIDITY</b>	not specified	50 – 70%	45 – 60%	40 – 60%	50 – 70%	not specified

# Introduction of Standard Diets



Altromin standard diets are complete animal feed for breeding or maintenance of laboratory animals and therefore suited for all development and life stages of the animals.

Our standard diets are generally designed for an ad libitum feed intake. However, for some animals, e.g. minipigs and particularly for certain mice strains or breeding lines, it can be necessary to restrict the feed consumption to avoid health injuries or change to a diet with a lower energy content.

Following additional options are available for all feeds on request:

- Specially composed diets as „**Deficient in Nitrosamines**“ and/or „**Deficient in Phytoestrogens**“.
- **Autoclavable** feeds with a specifically increased content of vitamins (Fortified).
- **Irradiated** feedingstuffs with dose rates from 5 up to 50 kGy.
- „**Certificated**“ feeds – with a batch-related certificate of analysis.

Standard diets for other animal species which are not mentioned in this catalogue, e.g. ferrets, gerbils, cats and others, are also available on request. For special and experimental diets as well as Open-Formula diets, please have a look at our website or contact our scientific staff.

## Available Packaging Options

Open-mouth paper bags	10 – 25 kg
Needled paper bags	10 – 25 kg
Aseptic PE-bags, heat-sealed	10 – 25 kg
Vacuum packaging, paper-plastics	1 – 10 kg
Vacuum packaging, plastics-plastics	2.5 / 5 kg
Big Bags	max. 800 – 1.000 kg



Annotation:

The following nutrient values are calculated averages in air-dry substance. The analytical values may vary due to natural variations of the biological raw materials. All data presented in this catalogue are based on our current knowledge and experiences as well as of current analyses. The author reserves the right not to be responsible for the topicality, correctness, completeness or quality of the information provided. Liability claims regarding damage caused by the use of any information provided, including any kind of information which is incomplete or incorrect, will therefore be rejected.

Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	22.5
Crude Fat	5.0
Crude Fibre	4.5
Crude Ash	6.5
NFE Nitrogen Free Extracts	50.5

Minerals	[%]
Calcium	0.9
Phosphorus	0.7
Magnesium	0.2
Sodium	0.2
Potassium	0.9

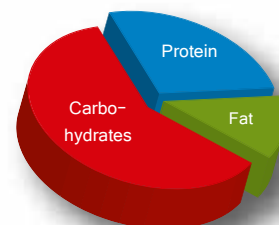
Trace Elements	[ppm]
Iron	150
Manganese	50
Zinc	60
Copper	13
Iodine	1.4
Selenium	0.5
Cobalt	0.3

Item no.	
1311	Powder/Meal
1314	Pellets, 10mm
1316	Pellets, 13mm
1319	Extrudates
131x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 12.5 MJ/kg (2988 kcal/kg)

Calories from Protein	27%
Calories from Fat	13%
Calories from Carbohydrates	60%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	1.0	Methionine+Cystine	0.7
Arginine	1.5	Phenylalanine	1.1
Aspartic Acid	2.3	Phenylalanine+Tyrosine	1.9
Glutamic Acid	4.3	Proline	1.4
Glycine	0.9	Serine	1.1
Histidine	0.5	Threonine	0.8
Isoleucine	1.0	Tryptophan	0.3
Leucine	1.8	Valine	1.1
Lysine	1.2		



<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	89.0
Crude Protein	23.0
Crude Fat	5.0
Crude Fibre	4.5
Crude Ash	5.5
NfE Nitrogen Free Extracts	51.0

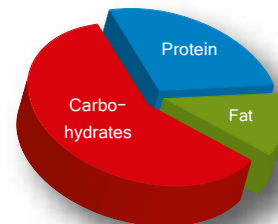
<b>Minerals</b>	<b>[%]</b>
Calcium	0.9
Phosphorus	0.7
Magnesium	0.2
Sodium	0.2
Potassium	0.5

<b>Trace Elements</b>	<b>[ppm]</b>
Iron	140
Manganese	70
Zinc	60
Copper	12
Iodine	1.5
Selenium	0.5
Cobalt	0.3

<b>Item no.</b>	
1311 P	Powder/Meal
1314 P	Pellets, 10mm
131x P N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

<b>Metabolizable Energy (ME)</b>	12.1 MJ/kg (2891 kcal/kg)
Calories from Protein	27%
Calories from Fat	13%
Calories from Carbohydrates	60%

Annotation:  
Calculated values using Atwater factors.



<b>Vitamins per kg</b>	<b>Standard</b>	<b>Fortified</b>
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

<b>Amino Acids</b>	<b>[%]</b>	<b>[%]</b>
Alanine	1.6	Methionine+Cystine 1.6
Arginine	0.9	Phenylalanine 1.9
Aspartic Acid	1.5	Phenylalanine+Tyrosine 2.9
Glutamic Acid	4.9	Proline 1.1
Glycine	0.8	Serine 0.8
Histidine	0.5	Threonine 0.2
Isoleucine	0.9	Tryptophan 1.0
Leucine	2.9	Valin 1.1
Lysine	0.5	

Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	19.0
Crude Fat	4.0
Crude Fibre	6.0
Crude Ash	7.5
NFE Nitrogen Free Extracts	53.0

Minerals	[%]
Calcium	0.9
Phosphorus	0.7
Magnesium	0.3
Sodium	0.2
Potassium	1.0

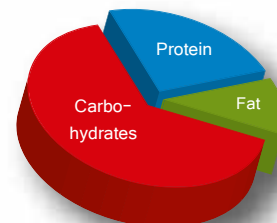
Trace Elements	[ppm]
Iron	165
Manganese	75
Zinc	70
Copper	13
Iodine	1.5
Selenium	0.5
Cobalt	0.3

Item no.	
1321	Powder/Meal
1324	Pellets, 10mm
1326	Pellets, 13mm
1329	Extrudates
132x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 11.9 MJ/kg (2844 kcal/kg)

Calories from Protein	24%
Calories from Fat	11%
Calories from Carbohydrates	65%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	0.9	Methionine+Cystine	0.6
Arginine	1.2	Phenylalanine	0.8
Aspartic Acid	1.8	Phenylalanine+Tyrosine	1.4
Glutamic Acid	3.8	Proline	1.2
Glycine	0.9	Serine	0.9
Histidine	0.4	Threonine	0.7
Isoleucine	0.8	Tryptophan	0.2
Leucine	1.4	Valine	0.9
Lysine	0.9		

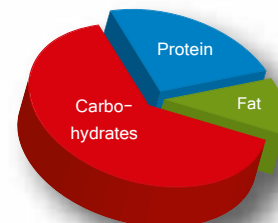
Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	19.5
Crude Fat	4.0
Crude Fibre	6.0
Crude Ash	6.5
NfE Nitrogen Free Extracts	53.0

Minerals	[%]
Calcium	0.9
Phosphorus	0.7
Magnesium	0.3
Sodium	0.2
Potassium	0.7

Trace Elements	[ppm]
Iron	155
Manganese	85
Zinc	70
Copper	14
Iodine	1.5
Selenium	0.5
Cobalt	0.3

Item no.	
1321 P	Powder/Meal
1324 P	Pellets, 10mm
132x P N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

Metabolizable Energy (ME)	11.2 MJ/kg (2676 kcal/kg)
Calories from Protein	24%
Calories from Fat	11%
Calories from Carbohydrates	65%
Annotation:	
Calculated values using Atwater factors.	



Vitamins per kg	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	1.3	Methionine+Cystine	0.8
Arginine	0.9	Phenylalanine	0.9
Aspartic Acid	1.3	Phenylalanine+Tyrosine	1.6
Glutamic Acid	4.2	Proline	1.6
Glycine	0.8	Serine	0.9
Histidine	0.4	Threonine	0.7
Isoleucine	0.7	Tryptophan	0.2
Leucine	2.1	Valine	0.9
Lysine	0.5		

Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	14.0
Crude Fat	4.0
Crude Fibre	7.0
Crude Ash	7.0
NFE Nitrogen Free Extracts	57.0

Minerals	[%]
Calcium	0.8
Phosphorus	0.6
Magnesium	0.2
Sodium	0.2
Potassium	0.6

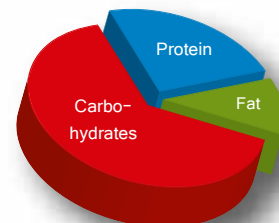
Trace Elements	[ppm]
Iron	160
Manganese	75
Zinc	75
Copper	12
Iodine	1.5
Selenium	0.4
Cobalt	0.4

Item no.	
1331	Powder/Meal
1334	Pellets, 10mm
1339	Extrudates
133x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 12.5 MJ/kg (3000 kcal/kg)

Calories from Protein	19%
Calories from Fat	12%
Calories from Carbohydrates	69%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	0.6	Methionine+Cystine	0.4
Arginine	0.7	Phenylalanine	0.6
Aspartic Acid	1.0	Phenylalanine+Tyrosine	1.0
Glutamic Acid	2.8	Proline	1.0
Glycine	0.6	Serine	0.6
Histidine	0.3	Threonine	0.5
Isoleucine	0.5	Tryptophan	0.2
Leucine	1.0	Valine	0.6
Lysine	0.5		

Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	25.0
Crude Fat	9.0
Crude Fibre	2.5
Crude Ash	6.5
NfE Nitrogen Free Extracts	46.0

Minerals	[%]
Calcium	1.0
Phosphorus	0.8
Magnesium	0.1
Sodium	0.2
Potassium	0.4

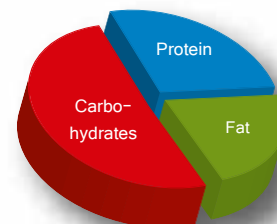
Trace Elements	[ppm]
Iron	120
Manganese	45
Zinc	50
Copper	10
Iodine	1.4
Selenium	0.5
Cobalt	0.3

Item no.	
1411	Powder/Meal
1414	Pellets, 10mm
141x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

Metabolizable Energy (ME) 13.2 MJ/kg (3154 kcal/kg)

Calories from Protein	27%
Calories from Fat	22%
Calories from Carbohydrates	51%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	20.000 IU	25.000 IU
Vitamin D3	800 IU	1.000 IU
Vitamin B1	24 mg	30 mg
Vitamin B2	16 mg	20 mg
Vitamin B6	12 mg	15 mg
Vitamin B12	32 µg	40 µg
Vitamin C	46 mg	58 mg
Vitamin K3	4 mg	5 mg
Vitamin E	100 mg	125 mg
Folic Acid	3 mg	3 mg
Biotine	80 µg	100 µg
Nicotinic Acid	48 mg	60 mg
Pantothenic Acid	28 mg	35 mg
Choline Chloride	800 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	1.8	Methionine+Cystine	1.0
Arginine	1.0	Phenylalanine	1.4
Aspartic Acid	1.7	Phenylalanine+Tyrosine	2.5
Glutamic Acid	5.2	Proline	2.1
Glycine	0.8	Serine	1.2
Histidine	0.5	Threonine	0.8
Isoleucine	1.0	Tryptophan	0.2
Leucine	3.3	Valine	1.1
Lysine	0.9		



<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	89.0
Crude Protein	22.5
Crude Fat	5.0
Crude Fibre	13.0
Crude Ash	8.5
NfE Nitrogen Free Extracts	40.0

<b>Minerals</b>	<b>[%]</b>
Calcium	0.9
Phosphorus	0.7
Magnesium	0.2
Sodium	0.2
Potassium	1.3

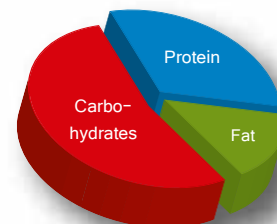
<b>Trace Elements</b>	<b>[ppm]</b>
Iron	160
Manganese	50
Zinc	50
Copper	15
Iodine	1.2
Selenium	0.5
Cobalt	0.3

<b>Item no.</b>	
2011	Powder/Meal
2013	Pellets, 4,5mm
201x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 10.4 MJ/kg (2485 kcal/kg)

Calories from Protein	31%
Calories from Fat	15%
Calories from Carbohydrates	54%

Annotation:  
Calculated values using Atwater factors.

**Vitamins per kg**

	<b>Standard</b>	<b>Fortified</b>
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

<b>Amino Acids</b>	<b>[%]</b>	<b>[%]</b>
Alanine	1.0	Methionine+Cystine 0.5
Arginine	1.5	Phenylalanine 1.0
Aspartic Acid	2.3	Phenylalanine+Tyrosine 1.7
Glutamic Acid	3.7	Proline 1.1
Glycine	0.9	Serine 1.1
Histidine	0.5	Threonine 0.8
Isoleucine	0.9	Tryptophan 0.3
Leucine	1.6	Valine 1.0
Lysine	1.2	

<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	89.0
Crude Protein	17.5
Crude Fat	4.0
Crude Fibre	14.5
Crude Ash	8.0
NfE Nitrogen Free Extracts	45.0

<b>Minerals</b>	<b>[%]</b>
Calcium	0.9
Phosphorus	0.7
Magnesium	0.2
Sodium	0.2
Potassium	1.1

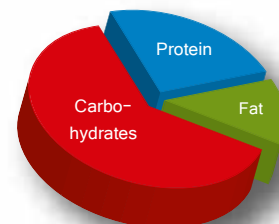
<b>Trace Elements</b>	<b>[ppm]</b>
Iron	160
Manganese	55
Zinc	50
Copper	14
Iodine	1.3
Selenium	0.5
Cobalt	0.3

<b>Artikel-Nr.</b>	
2021	Powder/Meal
2023	Pellets, 4,5mm
202x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 10.1 MJ/kg (2413 kcal/kg)

Calories from Protein	24%
Calories from Fat	13%
Calories from Carbohydrates	63%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	<b>Standard</b>	<b>Fortified</b>
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

<b>Amino Acids</b>	<b>[%]</b>	<b>[%]</b>
Alanine	0.8	Methionine+Cystine 0.5
Arginine	1.0	Phenylalanin 0.7
Aspartic Acid	1.6	Phenylalanine+Tyrosine 1.2
Glutamic Acid	2.8	Proline 0.9
Glycine	0.7	Serine 0.8
Histidine	0.3	Threonine 0.6
Isoleucine	0.7	Tryptophan 0.2
Leucine	1.2	Valine 0.8
Lysine	0.8	

<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	89.0
Crude Protein	15.0
Crude Fat	3.5
Crude Fibre	19.5
Crude Ash	7.5
NfE Nitrogen Free Extracts	43.5

<b>Minerals</b>	<b>[%]</b>
Calcium	0.8
Phosphorus	0.6
Magnesium	0.2
Sodium	0.2
Potassium	0.8

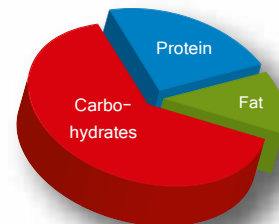
<b>Trace Elements</b>	<b>[ppm]</b>
Iron	140
Manganese	45
Zinc	40
Copper	12
Iodine	1.2
Selenium	0.5
Cobalt	0.3

<b>Artikel-Nr.</b>	
2111	Powder/Meal
2113	Pellets, 4,5mm
211x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 9.7 MJ/kg (2318 kcal/kg)

Calories from Protein	23%
Calories from Fat	12%
Calories from Carbohydrates	65%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	<b>Standard</b>	<b>Fortified</b>
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

<b>Amino Acids</b>	<b>[%]</b>	<b>[%]</b>
Alanine	0.6	Methionine+Cystine 0.3
Arginine	0.7	Phenylalanine 0.5
Aspartic Acid	1.1	Phenylalanine+Tyrosine 0.9
Glutamic Acid	1.9	Proline 0.6
Glycine	0.5	Serine 0.5
Histidine	0.2	Threonine 0.4
Isoleucine	0.4	Tryptophan 0.1
Leucine	0.8	Valine 0.5
Lysine	0.5	

Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	12.0
Crude Fat	3.0
Crude Fibre	20.0
Crude Ash	7.5
NfE Nitrogen Free Extracts	46.5

Minerals	[%]
Calcium	0.8
Phosphorus	0.6
Magnesium	0.2
Sodium	0.2
Potassium	0.9

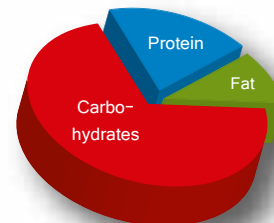
Trace Elements	[ppm]
Iron	155
Manganese	60
Zinc	45
Copper	13
Iodine	1.2
Selenium	0.5
Cobalt	0.3

Item no.	
2121	Powder/Meal
2123	Pellets, 4,5mm
212x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 9.6 MJ/kg (2294 kcal/kg)

Calories from Protein	19%
Calories from Fat	10%
Calories from Carbohydrates	71%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	0.5	Methionine+Cystine	0.3
Arginine	0.5	Phenylalanine	0.4
Aspartic Acid	0.8	Phenylalanine+Tyrosine	0.7
Glutamic Acid	1.3	Proline	0.5
Glycine	0.5	Serine	0.4
Histidine	0.2	Threonine	0.3
Isoleucine	0.3	Tryptophan	0.1
Leucine	0.6	Valine	0.4
Lysine	0.4		

Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	23.0
Crude Fat	5.0
Crude Fibre	12.0
Crude Ash	8.5
NfE Nitrogen Free Extracts	45.5

Minerals	[%]
Calcium	0.9
Phosphorus	0.7
Magnesium	0.2
Sodium	0.2
Potassium	1.3

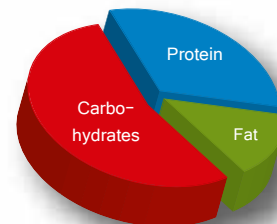
Trace Elements	[ppm]
Iron	165
Manganese	45
Zinc	45
Copper	15
Iodine	1.2
Selenium	0.5
Cobalt	0.3

Item no.	
3011	Powder/Meal
3013	Pellets, 4,5mm
301x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 10.6 MJ/kg (2544 kcal/kg)

Calories from Protein	31%
Calories from Fat	15%
Calories from Carbohydrates	54%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	1.294 mg	2.158 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	1.0	Methionine+Cystine	0.6
Arginine	1.6	Phenylalanine	1.0
Aspartic Acid	2.4	Phenylalanine+Tyrosine	1.7
Glutamic Acid	4.0	Proline	1.1
Glycine	1.0	Serine	1.1
Histidine	0.5	Threonine	0.8
Isoleucine	1.0	Tryptophan	0.3
Leucine	1.7	Valine	1.1
Lysine	1.2		



Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	18.0
Crude Fat	4.3
Crude Fibre	14.5
Crude Ash	8.5
NfE Nitrogen Free Extracts	43.7

Minerals	[%]
Calcium	0.9
Phosphorus	0.7
Magnesium	0.2
Sodium	0.2
Potassium	1.2

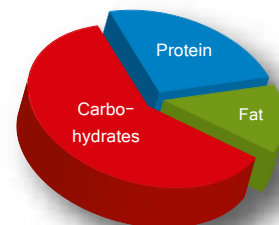
Trace Elements	[ppm]
Iron	170
Manganese	60
Zinc	50
Copper	14
Iodine	1.3
Selenium	0.5
Cobalt	0.3

Item no.	
3021	Powder/Meal
3023	Pellets, 4,5mm
302x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 10.2 MJ/kg (2437 kcal/kg)

Calories from Protein	25%
Calories from Fat	14%
Calories from Carbohydrates	61%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	1.294 mg	2.158 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	0.8	Methionine+Cystine	0.5
Arginine	1.1	Phenylalanine	0.7
Aspartic Acid	1.7	Phenylalanine+Tyrosine	1.2
Glutamic Acid	2.9	Proline	0.9
Glycine	0.8	Serine	0.8
Histidine	0.4	Threonine	0.6
Isoleucine	0.7	Tryptophan	0.2
Leucine	1.2	Valine	0.8
Lysine	0.8		

# #3110

# Guinea Pigs – Breeding

Rich in Crude Fibre

<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	89.0
Crude Protein	15.5
Crude Fat	4.0
Crude Fibre	19.5
Crude Ash	8.0
NfE Nitrogen Free Extracts	42.0

<b>Minerals</b>	<b>[%]</b>
Calcium	0.8
Phosphorus	0.5
Magnesium	0.2
Sodium	0.2
Potassium	0.9

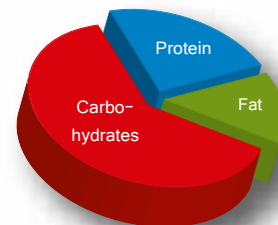
<b>Trace Elements</b>	<b>[ppm]</b>
Iron	150
Manganese	50
Zinc	45
Copper	13
Iodine	1.2
Selenium	0.5
Cobalt	0.3

<b>Item no.</b>	
3111	Powder/Meal
3113	Pellets, 4,5mm
311x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 9.8 MJ/kg (2341 kcal/kg)

Calories from Protein	23%
Calories from Fat	14%
Calories from Carbohydrates	63%

Annotation:  
Calculated values using Atwater factors.



## Vitamins per kg

	<b>Standard</b>	<b>Fortified</b>
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	1.294 mg	2.158 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

<b>Amino Acids</b>	<b>[%]</b>	<b>[%]</b>
Alanine	0.6	Methionine+Cystine 0.3
Arginine	0.8	Phenylalanine 0.5
Aspartic Acid	1.2	Phenylalanine+Tyrosine 0.9
Glutamic Acid	2.0	Proline 0.6
Glycine	0.6	Serine 0.6
Histidine	0.3	Threonine 0.5
Isoleucine	0.5	Tryptophan 0.1
Leucine	0.9	Valine 0.6
Lysine	0.6	

# #3120

# Guinea Pigs – Maintenance

Rich in Crude Fibre

Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	14.0
Crude Fat	4.0
Crude Fibre	19.5
Crude Ash	7.5
NfE Nitrogen Free Extracts	44.0

Minerals	[%]
Calcium	0.8
Phosphorus	0.6
Magnesium	0.2
Sodium	0.2
Potassium	0.9

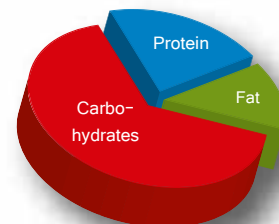
Trace Elements	[ppm]
Iron	150
Manganese	50
Zinc	45
Copper	13
Iodine	1.2
Selenium	0.5
Cobalt	0.3

Item no.	
3121	Powder/Meal
3123	Pellets, 4,5mm
312x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 9.7 MJ/kg (2318 kcal/kg)

Calories from Protein	21%
Calories from Fat	13%
Calories from Carbohydrates	66%

Annotation:  
Calculated values using Atwater factors.



## Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	1.294 mg	2.158 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]	[%]
Alanine	0.5	Methionine+Cystine 0.3
Arginine	0.7	Phenylalanine 0.4
Aspartic Acid	1.0	Phenylalanine+Tyrosine 0.7
Glutamic Acid	1.8	Proline 0.6
Glycine	0.5	Serine 0.5
Histidine	0.2	Threonine 0.4
Isoleucine	0.4	Tryptophan 0.1
Leucine	0.8	Valine 0.5
Lysine	0.5	

<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	88.0
Crude Protein	24.0
Crude Fat	5.5
Crude Fibre	4.0
Crude Ash	9.5
NfE Nitrogen Free Extracts	45.0

<b>Minerals</b>	<b>[%]</b>
Calcium	1.4
Phosphorus	1.1
Magnesium	0.2
Sodium	0.3
Potassium	0.9

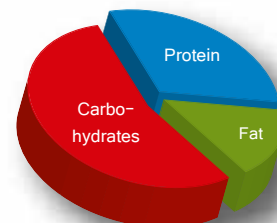
<b>Trace Elements</b>	<b>[ppm]</b>
Iron	225
Manganese	65
Zinc	70
Copper	15
Iodine	1.8
Selenium	0.5
Cobalt	0.3

<b>Item no.</b>	
4131	Powder/Meal
4134	Pellets, 10mm
4136	Pellets, 15mm
4139	Extrudates
413x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 12.5 MJ/kg (2987 kcal/kg)

Calories from Protein	30%
Calories from Fat	15%
Calories from Carbohydrates	55%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	<b>Standard</b>	<b>Fortified</b>
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

<b>Amino Acids</b>	<b>[%]</b>	<b>[%]</b>
Alanine	1.2	Methionine+Cystine 0.8
Arginine	1.5	Phenylalanine 1.0
Aspartic Acid	2.1	Phenylalanine+Tyrosine 1.7
Glutamic Acid	4.7	Proline 1.4
Glycine	1.2	Serine 1.2
Histidine	0.6	Threonine 0.9
Isoleucine	1.0	Tryptophan 0.3
Leucine	1.8	Valine 1.1
Lysine	1.4	

Crude Nutrients	[%]
Dry Matter	88.0
Crude Protein	25.0
Crude Fat	5.5
Crude Fibre	4.5
Crude Ash	7.0
NfE Nitrogen Free Extracts	46.0

Minerals	[%]
Calcium	0.9
Phosphorus	0.7
Magnesium	0.3
Sodium	0.2
Potassium	1.1

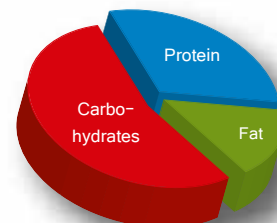
Trace Elements	[ppm]
Iron	160
Manganese	60
Zinc	65
Copper	16
Iodine	1.3
Selenium	0.5
Cobalt	0.3

Item no.	
6011	Powder/Meal
6014	Pellets, 10mm
6019	Extrudates
601x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable
Several flavourings available:	
Apple, Banana, Multi-Fruit	

**Metabolizable Energy (ME)** 12.6 MJ/kg (3011 kcal/kg)

Calories from Protein	30%
Calories from Fat	15%
Calories from Carbohydrates	55%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	20.000 IU	25.000 IU
Vitamin D3	800 IU	1.000 IU
Vitamin B1	24 mg	30 mg
Vitamin B2	16 mg	20 mg
Vitamin B6	12 mg	15 mg
Vitamin B12	32 µg	40 µg
Vitamin C	2.006 mg	2.508 mg
Vitamin K3	4 mg	5 mg
Vitamin E	100 mg	125 mg
Folic Acid	3 mg	3 mg
Biotine	80 µg	100 µg
Nicotinic Acid	48 mg	60 mg
Pantothenic Acid	28 mg	35 mg
Choline Chloride	800 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	1.1	Methionine+Cystine	0.7
Arginine	1.8	Phenylalanine	1.1
Aspartic Acid	2.6	Phenylalanine+Tyrosine	1.9
Glutamic Acid	5.1	Proline	1.4
Glycine	1.1	Serine	1.3
Histidine	0.6	Threonine	0.9
Isoleucine	1.1	Tryptophan	0.3
Leucine	1.9	Valine	1.2
Lysine	1.4		

<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	88.0
Crude Protein	22.0
Crude Fat	4.5
Crude Fibre	4.5
Crude Ash	7.0
NfE Nitrogen Free Extracts	50.0

<b>Minerals</b>	<b>[%]</b>
Calcium	0.9
Phosphorus	0.7
Magnesium	0.2
Sodium	0.2
Potassium	1.0

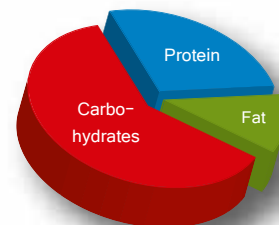
<b>Trace Elements</b>	<b>[ppm]</b>
Iron	160
Manganese	70
Zinc	70
Copper	15
Iodine	1.4
Selenium	0.5
Cobalt	0.3

<b>Item no.</b>	
6021	Powder/Meal
6024	Pellets, 10mm
6029	Extrudates
602x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable
Several flavourings available:	
Apple, Banana, Multi-Fruit	

**Metabolizable Energy (ME)** 12.4 MJ/kg (2963 kcal/kg)

Calories from Protein	27%
Calories from Fat	12%
Calories from Carbohydrates	61%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	<b>Standard</b>	<b>Fortified</b>
Vitamin A	20.000 IU	25.000 IU
Vitamin D3	800 IU	1.000 IU
Vitamin B1	24 mg	30 mg
Vitamin B2	16 mg	20 mg
Vitamin B6	12 mg	15 mg
Vitamin B12	32 µg	40 µg
Vitamin C	2.006 mg	2.508 mg
Vitamin K3	4 mg	5 mg
Vitamin E	100 mg	125 mg
Folic Acid	3 mg	3 mg
Biotine	80 µg	100 µg
Nicotinic Acid	48 mg	60 mg
Pantothenic Acid	28 mg	35 mg
Choline Chloride	800 mg	1.000 mg

<b>Amino Acids</b>	<b>[%]</b>	<b>[%]</b>
Alanine	1.0	Methionine+Cystine 0.7
Arginine	1.6	Phenylalanine 1.0
Aspartic Acid	2.1	Phenylalanine+Tyrosine 1.7
Glutamic Acid	4.7	Proline 1.4
Glycine	1.0	Serine 1.1
Histidine	0.5	Threonine 0.8
Isoleucine	0.9	Tryptophan 0.3
Leucine	1.7	Valine 1.1
Lysine	1.1	

Crude Nutrients	[%]
Dry Matter	88.0
Crude Protein	25.0
Crude Fat	6.0
Crude Fibre	5.0
Crude Ash	9.5
NfE Nitrogen Free Extracts	42.5

Minerals	[%]
Calcium	1.7
Phosphorus	1.0
Magnesium	0.2
Sodium	0.2
Potassium	1.0

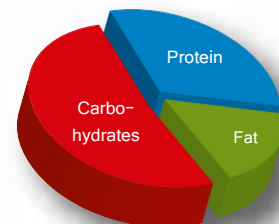
Trace Elements	[ppm]
Iron	130
Manganese	35
Zinc	45
Copper	14
Iodine	1.2
Selenium	0.5
Cobalt	0.4

Item no.	
6831	Powder/Meal
6834	Pellets, 10mm
683x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 12.4 MJ/kg (2963 kcal/kg)

Calories from Protein	31%
Calories from Fat	17%
Calories from Carbohydrates	52%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	664 mg	1.108 mg
Vitamin K3	3 mg	5 mg
Vitamin E	675 mg	1.125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	1.1	Methionine+Cystine	0.6
Arginine	1.9	Phenylalanine	1.1
Aspartic Acid	2.6	Phenylalanine+Tyrosine	1.9
Glutamic Acid	5.1	Proline	1.3
Glycine	1.0	Serine	1.3
Histidine	0.6	Threonine	0.9
Isoleucine	1.1	Tryptophan	0.3
Leucine	1.9	Valine	1.2
Lysine	1.5		



Crude Nutrients	[%]
Dry Matter	89.0
Crude Protein	23.0
Crude Fat	5.0
Crude Fibre	4.2
Crude Ash	6.5
NFE Nitrogen Free Extracts	50.3

Minerals	[%]
Calcium	0.9
Phosphorus	0.8
Magnesium	0.2
Sodium	0.2
Potassium	1.0

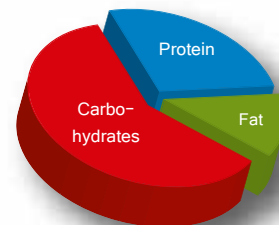
Trace Elements	[ppm]
Iron	160
Manganese	55
Zinc	60
Copper	14
Iodine	1.3
Selenium	0.5
Cobalt	0.3

Item no.	
7011	Powder/Meal
7014	Pellets, 10mm
7019	Extrudates
701x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 12.6 MJ/kg (2988 kcal/kg)

Calories from Protein	27%
Calories from Fat	13%
Calories from Carbohydrates	60%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	1.1	Methionine+Cystine	0.7
Arginine	1.4	Phenylalanine	1.1
Aspartic Acid	2.3	Phenylalanine+Tyrosine	2.0
Glutamic Acid	4.3	Proline	1.4
Glycine	0.9	Serine	1.1
Histidine	0.5	Threonine	0.8
Isoleucine	1.1	Tryptophan	0.2
Leucine	1.8	Valine	1.1
Lysine	1.1		

<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	89.0
Crude Protein	19.0
Crude Fat	4.2
Crude Fibre	5.8
Crude Ash	7.2
NFE Nitrogen Free Extracts	52.8

<b>Minerals</b>	<b>[%]</b>
Calcium	0.9
Phosphorus	0.7
Magnesium	0.4
Sodium	0.2
Potassium	1.0

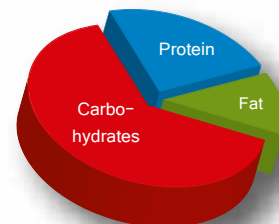
<b>Trace Elements</b>	<b>[ppm]</b>
Iron	170
Manganese	70
Zinc	75
Copper	13
Iodine	1.5
Selenium	0.5
Cobalt	0.3

<b>Item no.</b>	
7021	Powder/Meal
7024	Pellets, 10mm
7029	Extrudates
702x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 12.0 MJ/kg (2868 kcal/kg)

Calories from Protein	23%
Calories from Fat	12%
Calories from Carbohydrates	65%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	<b>Standard</b>	<b>Fortified</b>
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

<b>Amino Acids</b>	<b>[%]</b>		<b>[%]</b>
Alanine	1.0	Methionine+Cystine	0.6
Arginine	1.3	Phenylalanine	0.8
Aspartic Acid	1.8	Phenylalanine+Tyrosine	1.5
Glutamic Acid	3.7	Proline	1.1
Glycine	0.9	Serine	0.9
Histidine	0.4	Threonine	0.7
Isoleucine	0.9	Tryptophan	0.2
Leucine	1.4	Valine	0.9
Lysine	0.9		

<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	88.0
Crude Protein	15.5
Crude Fat	2.5
Crude Fibre	7.0
Crude Ash	7.0
NFE Nitrogen Free Extracts	56.0

<b>Minerals</b>	<b>[%]</b>
Calcium	1.0
Phosphorus	0.7
Magnesium	0.3
Sodium	0.2
Potassium	0.8

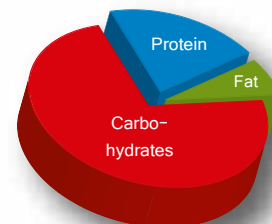
<b>Trace Elements</b>	<b>[ppm]</b>
Iron	165
Manganese	40
Zinc	80
Copper	14
Iodine	1.6
Selenium	0.5
Cobalt	0.3

<b>Item no.</b>	
9011	Powder/Meal
9013	Pellets, 4,5mm
901x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 11.5 MJ/kg (2748 kcal/kg)

Calories from Protein	20%
Calories from Fat	7%
Calories from Carbohydrates	73%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	<b>Standard</b>	<b>Fortified</b>
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

<b>Amino Acids</b>	<b>[%]</b>	<b>Amino Acids</b>	<b>[%]</b>
Alanine	0.7	Methionine+Cystine	0.6
Arginine	0.9	Phenylalanine	0.6
Aspartic Acid	1.1	Phenylalanine+Tyrosine	1.0
Glutamic Acid	3.2	Proline	1.0
Glycine	0.7	Serine	0.7
Histidine	0.3	Threonine	0.5
Isoleucine	0.6	Tryptophan	0.2
Leucine	1.0	Valine	0.7
Lysine	0.6		

Crude Nutrients	[%]
Dry Matter	88.0
Crude Protein	13.5
Crude Fat	2.5
Crude Fibre	13.0
Crude Ash	7.5
NFE Nitrogen Free Extracts	51.5

Minerals	[%]
Calcium	1.0
Phosphorus	0.7
Magnesium	0.3
Sodium	0.2
Potassium	0.6

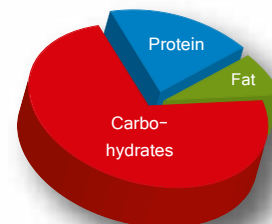
Trace Elements	[ppm]
Iron	150
Manganese	75
Zinc	65
Copper	13
Iodine	1.4
Selenium	0.5
Cobalt	0.3

Item no.	
9021	Powder/Meal
9023	Pellets, 4,5mm
902x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 10.5 MJ/kg (2509 kcal/kg)

Calories from Protein	19%
Calories from Fat	8%
Calories from Carbohydrates	73%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	0.5	Methionine+Cystine	0.4
Arginine	0.6	Phenylalanine	0.4
Aspartic Acid	0.9	Phenylalanine+Tyrosine	0.7
Glutamic Acid	2.4	Proline	0.8
Glycine	0.6	Serine	0.5
Histidine	0.2	Threonine	0.4
Isoleucine	0.4	Tryptophan	0.1
Leucine	0.8	Valine	0.5
Lysine	0.4		

Crude Nutrients	[%]
Dry Matter	88.0
Crude Protein	20.5
Crude Fat	4.0
Crude Fibre	5.0
Crude Ash	6.0
NfE Nitrogen Free Extracts	52.5

Minerals	[%]
Calcium	0.9
Phosphorus	0.6
Magnesium	0.2
Sodium	0.2
Potassium	1.0

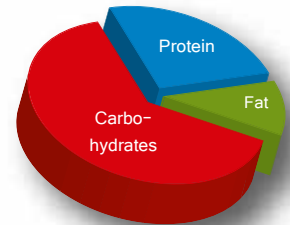
Trace Elements	[ppm]
Iron	160
Manganese	70
Zinc	70
Copper	14
Iodine	1.4
Selenium	0.5
Cobalt	0.3

Item no.	
9031	Powder/Meal
9033	Pellets, 4,5mm
903x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 12.1 MJ/kg (2891 kcal/kg)

Calories from Protein	25%
Calories from Fat	11%
Calories from Carbohydrates	64%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15,000 IU	25,000 IU
Vitamin D3	600 IU	1,000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1,000 mg

Amino Acids	[%]		[%]
Alanine	0.9	Methionine+Cystine	0.7
Arginine	1.3	Phenylalanine	0.9
Aspartic Acid	1.9	Phenylalanine+Tyrosine	1.6
Glutamic Acid	4.1	Proline	1.3
Glycine	0.9	Serine	1.0
Histidine	0.5	Threonine	0.7
Isoleucine	0.8	Tryptophan	0.2
Leucine	1.5	Valine	1.0
Lysine	1.0		

# #9050

# Minipigs – Maintenance

Rich in Crude Fibre

<b>Crude Nutrients</b>	<b>[%]</b>
Dry Matter	88.0
Crude Protein	10.5
Crude Fat	2.3
Crude Fibre	25.0
Crude Ash	7.7
NfE Nitrogen Free Extracts	42.5

<b>Minerals</b>	<b>[%]</b>
Calcium	1.0
Phosphorus	0.6
Magnesium	0.2
Sodium	0.2
Potassium	0.3

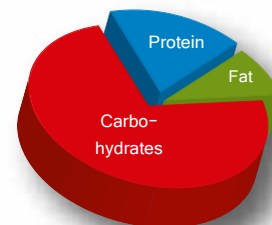
<b>Trace Elements</b>	<b>[ppm]</b>
Iron	120
Manganese	50
Zinc	40
Copper	10
Iodine	1.2
Selenium	0.5
Cobalt	0.3

<b>Item no.</b>	
9051	Powder/Meal
9053	Pellets, 4,5mm
905x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 6.8 MJ/kg (1625 kcal/kg)

Calories from Protein	18%
Calories from Fat	9%
Calories from Carbohydrates	73%

Annotation:  
Calculated values using Atwater factors.



## Vitamins per kg

	<b>Standard</b>	<b>Fortified</b>
Vitamin A	15,000 IU	25,000 IU
Vitamin D3	600 IU	1,000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1,000 mg

<b>Amino Acids</b>	<b>[%]</b>	<b>[%]</b>
Alanine	0.3	Methionine+Cystine 0.2
Arginine	0.2	Phenylalanine 0.2
Aspartic Acid	0.3	Phenylalanine+Tyrosine 0.2
Glutamic Acid	0.9	Proline 0.3
Glycine	0.3	Serine 0.2
Histidine	0.1	Threonine 0.2
Isoleucine	0.1	Tryptophan 0.1
Leucine	0.3	Valine 0.2
Lysine	0.2	

Crude Nutrients	[%]
Dry Matter	88.0
Crude Protein	17.5
Crude Fat	2.5
Crude Fibre	14.0
Crude Ash	8.5
NFE Nitrogen Free Extracts	45.5

Minerals	[%]
Calcium	0.9
Phosphorus	0.6
Magnesium	0.3
Sodium	0.2
Potassium	1.3

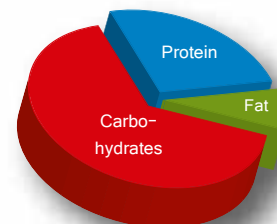
Trace Elements	[ppm]
Iron	180
Manganese	70
Zinc	60
Copper	9
Iodine	1.3
Selenium	0.5
Cobalt	0.3

Item no.	
0131	Powder/Meal
0133	Pellets, 4,5mm
013x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 11.2 MJ/kg (2676 kcal/kg)

Calories from Protein	26%
Calories from Fat	8%
Calories from Carbohydrates	66%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	15.000 IU	25.000 IU
Vitamin D3	600 IU	1.000 IU
Vitamin B1	18 mg	30 mg
Vitamin B2	12 mg	20 mg
Vitamin B6	9 mg	15 mg
Vitamin B12	24 µg	40 µg
Vitamin C	36 mg	58 mg
Vitamin K3	3 mg	5 mg
Vitamin E	75 mg	125 mg
Folic Acid	2 mg	3 mg
Biotine	60 µg	100 µg
Nicotinic Acid	36 mg	60 mg
Pantothenic Acid	21 mg	35 mg
Choline Chloride	600 mg	1.000 mg

Amino Acids	[%]		[%]
Alanine	0.8	Methionine+Cystine	0.5
Arginine	1.0	Phenylalanine	0.7
Aspartic Acid	1.6	Phenylalanine+Tyrosine	1.2
Glutamic Acid	2.8	Proline	0.9
Glycine	0.8	Serine	0.8
Histidine	0.4	Threonine	0.6
Isoleucine	0.7	Tryptophan	0.2
Leucine	1.2	Valine	0.8
Lysine	0.8		



Crude Nutrients	[%]
Dry Matter	88.0
Crude Protein	23.0
Crude Fat	7.0
Crude Fibre	3.5
Crude Ash	6.5
NFE Nitrogen Free Extracts	48.0

Minerals	[%]
Calcium	0.8
Phosphorus	0.6
Magnesium	0.2
Sodium	0.2
Potassium	1.0

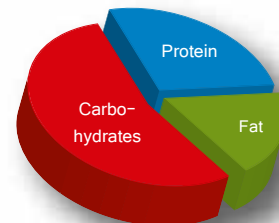
Trace Elements	[ppm]
Iron	140
Manganese	45
Zinc	55
Copper	14
Iodine	1.3
Selenium	0.5
Cobalt	0.3

Item no.	
0631	Powder/Meal
0633	Pellets, 4,5mm
063x N	Deficient in Nitrosamines
Forti	Fortified/Autoclavable

**Metabolizable Energy (ME)** 13.2 MJ/kg (3154 kcal/kg)

Calories from Protein	27%
Calories from Fat	18%
Calories from Carbohydrates	55%

Annotation:  
Calculated values using Atwater factors.



### Vitamins per kg

	Standard	Fortified
Vitamin A	40.000 IU	50.000 IU
Vitamin D3	2.000 IU	2.500 IU
Vitamin B1	63 mg	79 mg
Vitamin B2	40 mg	49 mg
Vitamin B6	32 mg	39 mg
Vitamin B12	96 µg	120 µg
Vitamin C	1.773 mg	2.217 mg
Vitamin K3	10 mg	14 mg
Vitamin E	200 mg	250 mg
Folic Acid	5 mg	6 mg
Biotine	224 µg	280 µg
Nicotinic Acid	130 mg	130 mg
Pantothenic Acid	80 mg	100 mg
Choline Chloride	1.600 mg	2.000 mg

Amino Acids	[%]		[%]
Alanine	1.0	Methionine+Cystine	0.8
Arginine	1.7	Phenylalanine	1.1
Aspartic Acid	2.4	Phenylalanine+Tyrosine	1.9
Glutamic Acid	4.7	Proline	1.3
Glycine	1.0	Serine	1.2
Histidine	0.5	Threonine	0.8
Isoleucine	1.0	Tryptophan	0.3
Leucine	1.7	Valine	1.1
Lysine	1.3		



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