

Diets fed to mice as part of a study published in *The Journal of Physiology* “Short-term feeding of a ketogenic diet induces more severe hepatic insulin resistance than a obesogenic high-fat diet.

Mice were fed [standard chow](#) (purified diet #2222; Kliba-Nafag, Kaiseraugst, Switzerland; 18% protein, 7% fat, 58% carbohydrate by mass) - Corn starch, casein, dextrose, sucrose, refined soybean oil, cellulose, minerals, vitamins, amino acids.

Or

A [ketogenic diet](#) with 90% of calories derived from fat (Teklan TD.96355 [Envigo, Huntingdon, UK; 15.3% protein, 67.4% fat, 0.6% carbohydrate by mass) - Casein, DL-Methionine, Vegetable Shortening, hydrogenated (Crisco), Corn Oil, Cellulose, Vitamin Mix, Teklad (40060), Choline Bitartrate, TBHQ, antioxidant, Mineral Mix, Ca-P Deficient (79055), Calcium Phosphate, dibasic, Calcium Carbonate.

Or

A [high-fat diet](#) with 60% of calories derived from fat (purified diet #2127; Kliba-Nafag; 23.9% protein, 35% fat, 23.2% carbohydrate by mass) - Lard, casein, maltodextrin, sucrose, cellulose, refined soybean oil, minerals, vitamins, amino acids.

Maus und Ratte
Souris et rat
Mouse and rat

Experimentalfutter, purified diet
Diète expérimentale, purified diet
Experimental diet, purified diet

AIN - 93 G

Inhaltsstoffe | Substances | Major Nutrients

Trockensubstanz Matière sèche Dry matter	90.0 %
Rohprotein Protéines brutes Crude protein	18.0 %
Rohfett Graisses brutes Crude fat	7.0 %
Rohfaser Fibres brutes Crude fiber	3.5 %
Rohasche Cendres brutes Crude ash	3.0 %
NfE ENA NFE	58.5 %
Bruttoenergie Energie brute Gross energy	17.5 MJ/kg
Umsetzbare Energie Energie métabolisable Metabol. energy	15.9 MJ/kg
Stärke Amidon Starch	35.0 %

Aminosäuren | Acides aminés | Amino acids

Arginin Arginine Arginine	0.65 %
Lysin Lysine Lysine	1.40 %
Methionin Méthionine Methionine	0.50 %
Methionin + Cystin Méthionine + cystine Methionine + cystine	0.85 %
Tryptophan Tryptophane Tryptophan	0.22 %
Threonin Thréonine Threonine	0.70 %

Mengenelemente | Macro-éléments | Major mineral elements

Calcium Calcium Calcium	0.52 %
Phosphor Phosphore Phosphorus	0.32 %
Magnesium Magnésium Magnesium	0.08 %
Natrium Sodium Sodium	0.22 %
Kalium Potassium Potassium	0.36 %
Chlor Chlore Chlorine	0.15 %

Spurenelemente | Oligo-éléments | Trace elements

Eisen Fer Iron	65 mg/kg
Zink Zinc Zinc	45 mg/kg
Kupfer Cuivre Copper	6 mg/kg
Jod Iode Iodine	0.6 mg/kg
Mangan Manganèse Manganese	12 mg/kg
Selen Sélénium Selenium	0.2 mg/kg

Vitamine | Vitamines | Vitamins

Vitamin A Vitamine A Vitamin A	4'000 IE UI IU/kg
Vitamin D ₃ Vitamine D ₃ Vitamin D ₃	1'000 IE UI IU/kg
Vitamin E Vitamine E Vitamin E	100 mg/kg
Vitamin K ₃ Vitamine K ₃ Vitamin K ₃	4 mg/kg
Vitamin B ₁ Vitamine B ₁ Vitamin B ₁	6 mg/kg
Vitamin B ₂ Vitamine B ₂ Vitamin B ₂	6 mg/kg
Vitamin B ₆ Vitamine B ₆ Vitamin B ₆	7 mg/kg
Vitamin B ₁₂ Vitamine B ₁₂ Vitamin B ₁₂	0.05 mg/kg
Nicotinsäure Acide nicotinique Nicotinic acid	30 mg/kg
Pantothensäure Acide pantothénique Pantothenic acid	16 mg/kg
Folsäure Acide folique Folic acid	2 mg/kg
Biotin Biotine Biotin	0.2 mg/kg
Cholin Choline Choline	1'200 mg/kg

Rohstoffe | Ingrédients | Ingredients

Maisstärke, Casein, Dextrose, Zucker, Sojaöl raffiniert, Zellulose, Mineralstoffe, Vitamine, Aminosäuren
Amidon de maïs, caséine, dextrose, sucre, huile de soja raffinée, cellulose, substances minérales, vitamines, acides aminés
Corn starch, casein, dextrose, sucrose, refined soybean oil, cellulose, minerals, vitamins, amino acids

Bemerkungen | Remarques | Remarks

- Experimentalfutter für Mäuse und Ratten
- Angegebene Gehalte sind berechnete Mittelwerte bezogen auf lufttrockene Substanz
- Herstellung auf Anfrage
- Diète expérimentale pour souris et rats
- Les teneurs indiquées sont des valeurs moyennes se rapportant à la matière séchée à l'air
- Fabrication sur demande
- Experimental diet for mice and rats
- Given values are calculated averages in air-dry feed
- Production on demand

Bestellform | Conditionnements | Delivery form

Pellets 10 mm rund | Pellets ronds 10 mm | Pellets 10 mm round

2222.PH.A05:

5 kg in verschweisstem Aluminiumbeutel
5 kg en sac, en aluminium, thermo-soudé
5 kg in welded aluminium bag

Mehl | Poudre | Powder

2222.MA.A05:

5 kg in verschweisstem Aluminiumbeutel
5 kg en sac, en aluminium, thermo-soudé
5 kg in welded aluminium bag

Maus und Ratte
Souris et rat
Mouse and rat
Experimentalfutter, purified diet
Diète expérimentale, purified diet
Experimental diet, purified diet

High Fat Diet: 60 % kcal % fat

Inhaltsstoffe | Substances | Major Nutrients

Trockensubstanz Matière sèche Dry matter	92.0 %
Rohprotein Protéines brutes Crude protein	23.9 %
Rohfett Graisses brutes Crude fat	35.0 %
Rohfaser Fibres brutes Crude fiber	4.9 %
Rohasche Cendres brutes Crude ash	5.0 %
NfE ENA NFE	23.2 %
Bruttoenergie Energie brute Gross energy	23.8 MJ/kg
Umsetzbare Energie Energie métabolisable Metabol. energy	22.0 MJ/kg
Stärke Amidon Starch	1.0 %

Aminosäuren | Acides aminés | Amino acids

Arginin Arginine Arginine	0.93 %
Lysin Lysine Lysine	1.62 %
Methionin Méthionine Methionine	0.54 %
Methionin + Cystin Méthionine + cystine Methionine + cystine	0.98 %
Tryptophan Tryptophane Tryptophan	0.39 %
Threonin Thréonine Threonine	0.93 %

Mengenelemente | Macro-éléments | Major mineral elements

Calcium Calcium Calcium	0.83 %
Phosphor Phosphore Phosphorus	0.50 %
Magnesium Magnésium Magnesium	0.08 %
Natrium Sodium Sodium	0.27 %
Kalium Potassium Potassium	0.57 %
Chlor Chlore Chlorine	0.21 %

Spurenelemente | Oligo-éléments | Trace elements

Eisen Fer Iron	80 mg/kg
Zink Zinc Zinc	48 mg/kg
Kupfer Cuivre Copper	8 mg/kg
Jod Iode Iodine	0.6 mg/kg
Mangan Manganèse Manganese	14 mg/kg
Selen Sélénium Selenium	0.2 mg/kg

Vitamine | Vitamines | Vitamins

Vitamin A Vitamine A Vitamin A	10'400 IE UI IU/kg
Vitamin D ₃ Vitamine D ₃ Vitamin D ₃	1'040 IE UI IU/kg
Vitamin E Vitamine E Vitamin E	357 mg/kg
Vitamin K ₃ Vitamine K ₃ Vitamin K ₃	6 mg/kg
Vitamin B ₁ Vitamine B ₁ Vitamin B ₁	23 mg/kg
Vitamin B ₂ Vitamine B ₂ Vitamin B ₂	15 mg/kg
Vitamin B ₆ Vitamine B ₆ Vitamin B ₆	11 mg/kg
Vitamin B ₁₂ Vitamine B ₁₂ Vitamin B ₁₂	0.05 mg/kg
Nicotinsäure Acide nicotinique Nicotinic acid	47 mg/kg
Pantothersäure Acide pantothénique Pantothenic acid	39 mg/kg
Folsäure Acide folique Folic acid	2 mg/kg
Biotin Biotine Biotin	0.2 mg/kg
Cholin Choline Choline	1'350 mg/kg

Rohstoffe | Ingrédients | Ingredients

Schweinefett, Casein, Maltodextrin, Zucker, Zellulose, Sojaöl raffiniert, Mineralstoffe, Vitamine, Aminosäuren

Graisse de porc, caséine, maltodextrine, sucre, cellulose, huile de soja raffinée, substances minérales, vitamines, acides aminés

Lard, casein, maltodextrin, sucrose, cellulose, refined soybean oil, minerals, vitamins, amino acids

Bemerkungen | Remarques | Remarks

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 5 kg in verschweisstem Aluminiumbeutel
 5 kg en sac, en aluminium, thermo-soudé
 5 kg in welded aluminium bag

Mehl | Poudre | Powder

2127.MA.A05:

 5 kg in verschweisstem Aluminiumbeutel
 5 kg en sac, en aluminium, thermo-soudé
 5 kg in welded aluminium bag

Formula

g/Kg

Casein	173.3
DL-Methionine	2.6
Vegetable Shortening, hydrogenated (Crisco)	586.4
Corn Oil	86.2
Cellulose	87.97
Vitamin Mix, Teklad (40060)	13.0
Choline Bitartrate	2.5
TBHQ, antioxidant	0.13
Mineral Mix, Ca-P Deficient (79055)	20.0
Calcium Phosphate, dibasic	19.3
Calcium Carbonate	8.2
Magnesium Oxide	0.4

Footnote

A very high fat diet with almost no carbohydrate. The ratio of fat to protein + carbohydrate in this ketogenic diet is approximately 4.25.

Selected Nutrient Information¹

	% by weight	% kcal from
Protein	15.3	9.2
Carbohydrate	0.5	0.3
Fat	67.4	90.5
Kcal/g	6.7	

¹ Values are calculated from ingredient analysis or manufacturer data

Speak With A Nutritionist

- + (800) 483-5523
- + askanutritionist@envigo.com

Teklad diets are designed & manufactured for research purposes only.

Key Features

- + Purified Diet
- + Ketogenic
- + Crisco
- + Rodent

Key Planning Information

- + Products are made fresh to order
- + Store product at 4°C or lower
- + Use within 6 months (applicable to most diets)
- + Box labeled with product name, manufacturing date, and lot number
- + Replace diet at minimum once per week
 - More frequent replacement may be advised*
- + Lead time:
 - 2 weeks non-irradiated
 - 4 weeks irradiated

Product Specific Information

- + Powder (paste)
- + Minimum order 3 Kg
- + Irradiation available upon request

Options (fees will apply)

- + Rush order (pending availability)
- + Irradiation (see Product Specific Information)

Contact Us

Obtain pricing · Check order status

- + teklad@envigo.com
- + (800) 483-5523



International Inquiry (outside USA or Canada)

- + askanutritionist@envigo.com

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