

Purified diet for rodents | without Vitamin A [<120 IU/kg]

Description

This purified diet is not supplemented with vitamin A. It is therefore suitable to induce hypovitaminosis A in rats and mice. Since vitamin A is stored in the liver it may take several months to deplete the vitamin A stores in adult animals.

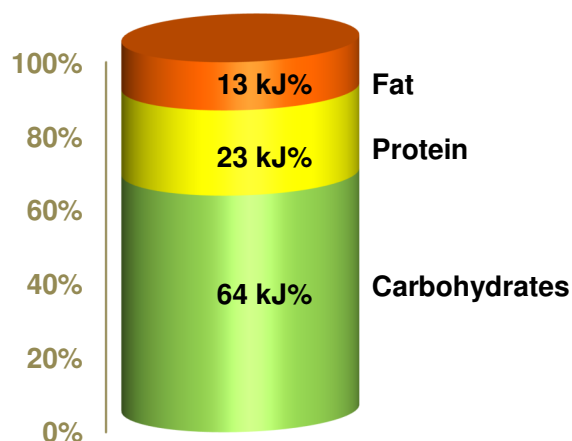
The diet is intended for ad libitum feeding. The animals should have free access to fresh water.



Gross Energy (GE)	18.3 MJ/kg
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Metabolizable Energy (ME) ¹⁾	15.3 MJ/kg
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¹⁾ = Physiological fuel value (Atwater); correspond to 3.655 kcal/kg



Crude Nutrients

Crude protein (N x 6.25)	21.0
Crude fat	5.2
Crude fibre	5.0
Crude ash	5.4
Starch	28.9
Dextrin	18.4
Sugar	11.0
N free extracts	59.4

Minerals

Calcium	0.92
Phosphorus	0.65
Ca / P	1.41 : 1
Sodium	0.20
Magnesium	0.23
Potassium	0.97

Amino acids

Lysine	1.75
Methionine	0.75
Cystine	0.29
Met+Cys	1.04
Threonine	0.93
Tryptophan	0.27
Arginine	0.83
Histidine	0.64
Valine	1.47
Isoleucine	1.19
Leucine	2.10
Phenylalanine	1.10
Phe+Tyr	2.22
Glycine	0.42
Glutamic acid	4.76
Aspartic acid	1.57
Proline	2.43
Serine	1.27
Alanine	0.64

Vitamins

Vitamin A	<120	IU
Vitamin D ₃	1,500	IU
Vitamin E	150	mg
Vitamin K (as MNB)	20	mg
Thiamine (B ₁)	26	mg
Riboflavin (B ₂)	16	mg
Pyridoxine (B ₆)	16	mg
Cobalamin (B ₁₂)	30	μg
Nicotinic acid	49	mg
Pantothenic acid	55	mg
Folic acid	16	mg
Biotin	300	μg
Choline	920	mg

Fatty acids

C 12:0	—
C 14:0	0.02
C 16:0	0.61
C 17:0	0.01
C 18:0	0.19
C 20:0	0.02
C 16:1	0.01
C 18:1	1.28
C 18:2	2.64
C 18:3	0.29

Trace elements

Iron	168	mg
Manganese	98	mg
Zinc	67	mg
Copper	14	mg
Iodine	1.2	mg
Selenium	0.2	mg

Main products

E15311-10	Meal / Powder
E15311-14	10 mm pellets
E15311-147	10 mm pellets, γ -irradiated 25 kGy

Production and Sale

ssniff Spezialdiäten GmbH
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Fax: +49-(0)2921-9658-40
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Purified diet for rodents | 15,000 IU/kg Vitamin A

Description

This diet has an identical composition as the vitamin A deficient and excess diet, but it has been supplemented with 15,000 IU vitamin A/kg diet. The diet is therefore used as control for both, the deficient and over-supplemented diet.

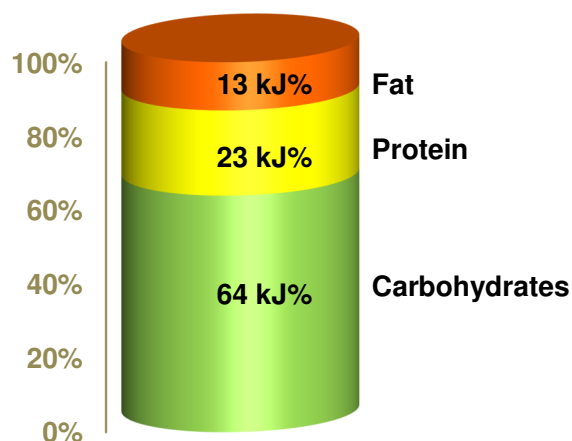
The diet is intended for ad libitum feeding. The animals should have free access to fresh water.



Gross Energy (GE)	18.3 MJ/kg
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Metabolizable Energy (ME) ¹⁾	15.4 MJ/kg
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¹⁾ = Physiological fuel value (Atwater); correspond to 3.680 kcal/kg



Crude Nutrients

Crude protein (N x 6.25)	21.0
Crude fat	5.2
Crude fibre	5.0
Crude ash	5.4
Starch	28.9
Dextrin	18.4
Sugar	11.0
N free extracts	59.4

Minerals

Minerals	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.41 : 1
Sodium	0.20
Magnesium	0.23
Potassium	0.97

Fatty acids

Fatty acids	[%]
C 12:0	—
C 14:0	0.02
C 16:0	0.61
C 17:0	0.01
C 18:0	0.19
C 20:0	0.02
C 16:1	0.01
C 18:1	1.28
C 18:2	2.64
C 18:3	0.29

Amino acids

Amino acids	[%]
Lysine	1.75
Methionine	0.75
Cystine	0.29
Met+Cys	1.04
Threonine	0.93
Tryptophan	0.27
Arginine	0.83
Histidine	0.64
Valine	1.47
Isoleucine	1.19
Leucine	2.10
Phenylalanine	1.10
Phe+Tyr	2.22
Glycine	0.42
Glutamic acid	4.76
Aspartic acid	1.57
Proline	2.43
Serine	1.27
Alanine	0.64

Vitamins

Vitamins	per kg	
Vitamin A	15,000	IU
Vitamin D ₃	1,500	IU
Vitamin E	150	mg
Vitamin K (as MNB)	20	mg
Thiamine (B ₁)	26	mg
Riboflavin (B ₂)	16	mg
Pyridoxine (B ₆)	16	mg
Cobalamin (B ₁₂)	30	μg
Nicotinic acid	49	mg
Pantothenic acid	55	mg
Folic acid	16	mg
Biotin	300	μg
Choline	920	mg

Trace elements

Trace elements	per kg	
Iron	168	mg
Manganese	98	mg
Zinc	67	mg
Copper	14	mg
Iodine	1.2	mg
Selenium	0.2	mg

Main products

E15311-00	Meal / Powder
E15311-04	10 mm pellets
E15311-047	10 mm pellets, γ -irradiated 25 kGy

Production and Sale

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Vitamin A excess

Purified diet for rodents | 350,000 IU/kg Vitamin A supplementation

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Description

This purified diet contains excess levels of vitamin A. Chronic administration of that diet will induce bone / cartilage lesions

The diet is intended for ad libitum feeding. The animals should have free access to fresh water.



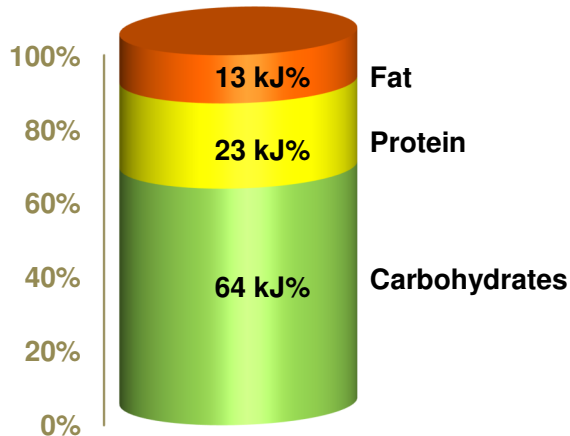
Gross Energy (GE)

18.3 MJ/kg

Metabolizable Energy (ME) ¹⁾

15.4 MJ/kg

¹⁾ = Physiological fuel value (Atwater);
correspond to 3,680 kcal/kg



Crude Nutrients

	[%]
Crude protein (N x 6.25)	21.0
Crude fat	5.2
Crude fibre	5.0
Crude ash	5.4
Starch	28.9
Dextrin	18.3
Sugar	11.0
N free extracts	59.2

Minerals

	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.41 : 1
Sodium	0.20
Magnesium	0.23
Potassium	0.97

Fatty acids

	[%]
C 12:0	—
C 14:0	0.02
C 16:0	0.61
C 17:0	0.01
C 18:0	0.19
C 20:0	0.02
C 16:1	0.01
C 18:1	1.28
C 18:2	2.64
C 18:3	0.29

Amino acids

	[%]
Lysine	1.75
Methionine	0.75
Cystine	0.29
Met+Cys	1.04
Threonine	0.93
Tryptophan	0.27
Arginine	0.83
Histidine	0.64
Valine	1.47
Isoleucine	1.19
Leucine	2.10
Phenylalanine	1.10
Phe+Tyr	2.22
Glycine	0.42
Glutamic acid	4.76
Aspartic acid	1.57
Proline	2.43
Serine	1.27
Alanine	0.64

Vitamins

	per kg
Vitamin A	350,000 IU
Vitamin D ₃	1,500 IU
Vitamin E	150 mg
Vitamin K (as MNB)	20 mg
Thiamine (B ₁)	26 mg
Riboflavin (B ₂)	16 mg
Pyridoxine (B ₆)	16 mg
Cobalamin (B ₁₂)	30 µg
Nicotinic acid	49 mg
Pantothenic acid	55 mg
Folic acid	16 mg
Biotin	300 µg
Choline	920 mg

Trace elements

	per kg
Iron	168 mg
Manganese	98 mg
Zinc	67 mg
Copper	14 mg
Iodine	1.2 mg
Selenium	0.2 mg

Main products

E15311-40	Meal / Powder
E15311-44	10 mm pellets
E15311-447	10 mm pellets, γ-irradiated 25 kGy

Production and Sale

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Vitamin D deficient, normal Ca & P

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Purified diet for rodents | without Vitamin D [<100 IU/kg]

Description

This purified diet does not contain vitamin D₃ supplements. The diet is therefore used to induce hypovitaminosis D in rats and mice. The Ca & P concentrations have been kept on the usual level as in the control diet (E15000).

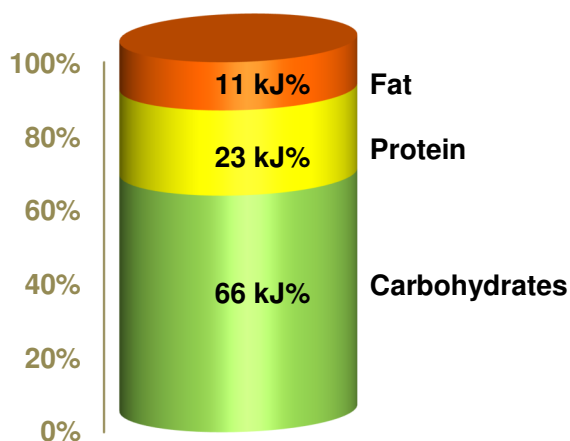
The diet is intended for ad libitum feeding. The animals should have free access to fresh water.



Gross Energy (GE) 18.1 MJ/kg

Metabolizable Energy (ME) ¹⁾ 15.2 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,630 kcal/kg



Crude Nutrients	[%]
Crude protein (N x 6.25)	21.0
Crude fat	4.2
Crude fibre	5.0
Crude ash	5.4
Starch	28.9
Dextrin	19.4
Sugar	11.0
N free extracts	60.4

Minerals	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.41 : 1
Sodium	0.20
Magnesium	0.23
Potassium	0.97

Amino acids	[%]
Lysine	1.75
Methionine	0.75
Cystine	0.29
Met+Cys	1.04
Threonine	0.93
Tryptophan	0.27
Arginine	0.83
Histidine	0.64
Valine	1.47
Isoleucine	1.19
Leucine	2.10
Phenylalanine	1.10
Phe+Tyr	2.22
Glycine	0.42
Glutamic acid	4.76
Aspartic acid	1.57
Proline	2.43
Serine	1.27
Alanine	0.64

Vitamins	per kg
Vitamin A	15,000 IU
Vitamin D ₃	<100 IU
Vitamin E	150 mg
Vitamin K (as MNB)	20 mg
Thiamine (B ₁)	26 mg
Riboflavin (B ₂)	16 mg
Pyridoxine (B ₆)	16 mg
Cobalamin (B ₁₂)	30 µg
Nicotinic acid	49 mg
Pantothenic acid	55 mg
Folic acid	16 mg
Biotin	300 µg
Choline	920 mg

Fatty acids	[%]
C 12:0	—
C 14:0	0.02
C 16:0	0.50
C 17:0	0.01
C 18:0	0.15
C 20:0	0.02
C 16:1	0.01
C 18:1	1.03
C 18:2	2.11
C 18:3	0.23

Trace elements	per kg
Iron	168 mg
Manganese	98 mg
Zinc	67 mg
Copper	14 mg
Iodine	1.2 mg
Selenium	0.2 mg

Main products

E15312-20 Meal / Powder
 E15312-24 10 mm pellets
 E15312-247 10 mm pellets, γ -irradiated 25 kGy
 With red dye = E15312-244

Production and Sale

ssniff Spezialdiäten GmbH
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Vitamin D excess, high Ca

Purified diet for rodents | 76,500 Vitamin D₃, 1.70 % Ca

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Description

In this purified diet the vitamin D₃ level has been increased to 76,500 IU/kg, and calcium to 1.70 % (2.6:1 Ca/P) which will induce hypervitaminosis D with calcinosis in rats and mice.

Addition of Warfarin which accelerate the arterial calcification (by inhibition of the formation of γ -carboxy glutamic acid (Gla) or γ -carboxylation of the Gla protein) on request.

The diet is intended for ad libitum feeding. The animals should have free access to fresh water.

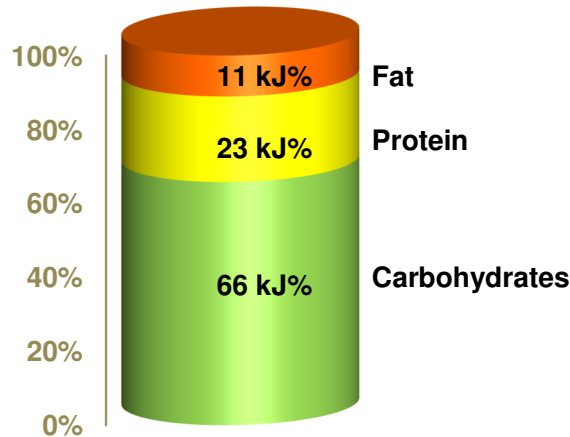
Gross Energy (GE)

17.8 MJ/kg

Metabolizable Energy (ME)¹⁾

15.0 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,580 kcal/kg



Crude Nutrients

	[%]
Crude protein (N x 6.25)	21.0
Crude fat	4.2
Crude fibre	5.0
Crude ash	7.1
Starch	27.0
Dextrin	19.5
Sugar	11.0
N free extracts	59.0

Minerals

	[%]
Calcium	1.70
Phosphorus	0.65
Ca / P	2.62 : 1
Sodium	0.20
Magnesium	0.23
Potassium	0.97

Amino acids

	[%]
Lysine	1.75
Methionine	0.75
Cystine	0.29
Met+Cys	1.04
Threonine	0.93
Tryptophan	0.27
Arginine	0.83
Histidine	0.64
Valine	1.47
Isoleucine	1.19
Leucine	2.10
Phenylalanine	1.10
Phe+Tyr	2.22
Glycine	0.42
Glutamic acid	4.76
Aspartic acid	1.57
Proline	2.43
Serine	1.27
Alanine	0.64

Vitamins

	per kg
Vitamin A	15,000 IU
Vitamin D ₃	76,500 IU
Vitamin E	150 mg
Vitamin K (as MNB)	20 mg
Thiamine (B ₁)	26 mg
Riboflavin (B ₂)	16 mg
Pyridoxine (B ₆)	16 mg
Cobalamin (B ₁₂)	30 µg
Nicotinic acid	49 mg
Pantothenic acid	55 mg
Folic acid	16 mg
Biotin	300 µg
Choline	920 mg

Fatty acids

	[%]
C 12:0	—
C 14:0	0.02
C 16:0	0.50
C 17:0	0.01
C 18:0	0.15
C 20:0	0.02
C 16:1	0.01
C 18:1	1.03
C 18:2	2.11
C 18:3	0.23

Trace elements

	per kg
Iron	168 mg
Manganese	98 mg
Zinc	67 mg
Copper	14 mg
Iodine	1.2 mg
Selenium	0.2 mg

Main products

E15312-40	Meal / Powder
E15312-44	10 mm pellets
E15312-447	10 mm pellets, γ -irradiated 25 kGy

With red food dye = E15312-244

Production and Sale

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This purified diet does not contain tocopherol supplements; different fat sources are used to reduce the basal vitamin E content of the diet. The E15051 is the corresponding control diet (150 mg vitamin E/kg)

Metabolizable Energy (ME) ¹⁾	15.4 MJ/kg
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A 3D pie chart illustrating the energy distribution of a 100g carbohydrate snack. The chart is divided into three segments: Carbohydrates (68 kJ%), Protein (19 kJ%), and Fat (13 kJ%). The segments are colored green, yellow, and orange respectively. The chart is set against a background with a vertical axis showing percentages from 0% to 100% in 20% increments.

Macronutrient	Energy (kJ%)
Carbohydrates	68 kJ%
Protein	19 kJ%
Fat	13 kJ%

Crude protein (N x 6.25)	17.6
Crude fat	5.1
Crude fibre	5.0
Crude ash	5.4
Starch	36.2
Dextrin	14.9
Sugar	11.0
N free extracts	63.0

Vitamins	per kg	
Vitamin A	15,000	IU
Vitamin D ₃	1,500	IU
Vitamin E	< 7	mg
Vitamin K (as MNB)	20	mg
Thiamine (B ₁)	26	mg
Riboflavin (B ₂)	16	mg
Pyridoxine (B ₆)	16	mg
Cobalamin (B ₁₂)	30	μg
Nicotinic acid	49	mg
Pantothenic acid	55	mg
Folic acid	16	mg
Biotin	300	μg
Choline	920	mg

Iron	168	mg
Manganese	98	mg
Zinc	66	mg
Copper	13	mg
Iodine	1.2	mg
Selenium	0.2	mg

E15314-20	Meal / Powder
E15314-24	10 mm pellets
E15314-247	10 mm pellets, γ -irradiated 25 kGy

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Vitamin E deficient

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Purified diet for rodents | without Vitamin E addition [<5 mg/kg]

Description

This purified diet does not contain tocopherol supplements; dextrose and different fat sources are used to further reduce the basal vitamin E content of the diet.

The diet is intended for ad libitum feeding. The animals should have free access to fresh water.



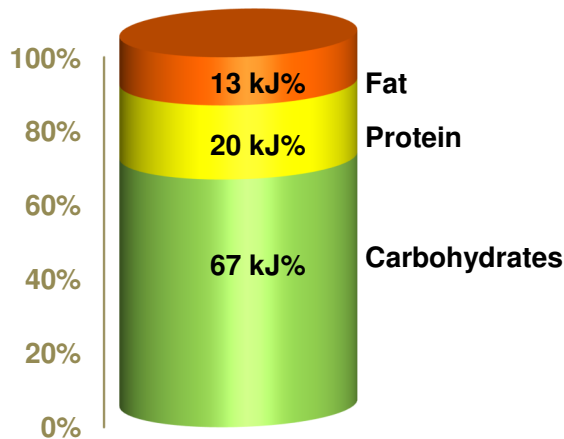
Gross Energy (GE)

17.6 MJ/kg

Metabolizable Energy (ME) ¹⁾

15.0 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,575 kcal/kg



Crude Nutrients

	[%]
Crude protein (N x 6.25)	17.6
Crude fat	5.1
Crude fibre	5.0
Crude ash	3.9
Starch	36.2
Sugar	58.6
N free extracts	60.2

Minerals

	[%]
Calcium	0.74
Phosphorus	0.51
Ca / P	1.46 : 1
Sodium	0.14
Magnesium	0.16
Potassium	0.56

Fatty acids

	[%]
C 8:0	0.12
C 10:0	0.10
C 12:0	0.96
C 14:0	0.42
C 16:0	0.57
C 18:0	0.38
C 20:0	0.01
C 16:1	0.01
C 18:1	0.75
C 18:2	1.45
C 18:3	0.25

Amino acids

	[%]
Lysine	1.47
Methionine	0.74
Cystine	0.18
Met+Cys	0.92
Threonine	0.78
Tryptophan	0.23
Arginine	0.69
Histidine	0.53
Valine	1.23
Isoleucine	1.00
Leucine	1.75
Phenylalanine	0.92
Phe+Tyr	1.85
Glycine	0.35
Glutamic acid	3.97
Aspartic acid	1.31
Proline	2.02
Serine	1.06
Alanine	0.53

Vitamins

	per kg
Vitamin A	21,000 IU
Vitamin D ₃	2,100 IU
Vitamin E	<5 mg
Vitamin K (as MNB)	21 mg
Thiamine (B ₁)	17 mg
Riboflavin (B ₂)	18 mg
Pyridoxine (B ₆)	18 mg
Cobalamin (B ₁₂)	50 µg
Nicotinic acid	95 mg
Pantothenic acid	60 mg
Folic acid	8 mg
Biotin	400 µg
Choline	920 mg

Trace elements

	per kg
Iron	51 mg
Manganese	22 mg
Zinc	45 mg
Copper	11 mg
Iodine	0.29 mg
Selenium	0.17 mg

Main products

E15792-10	Meal / Powder
E15792-14	10 mm pellets
E15792-147	10 mm pellets, γ -irradiated 25 kGy

Production and Sale

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Vitamin B₁ deficient

Purified thiamin deficient diet | <2 mg/kg Vitamin B₁

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Description

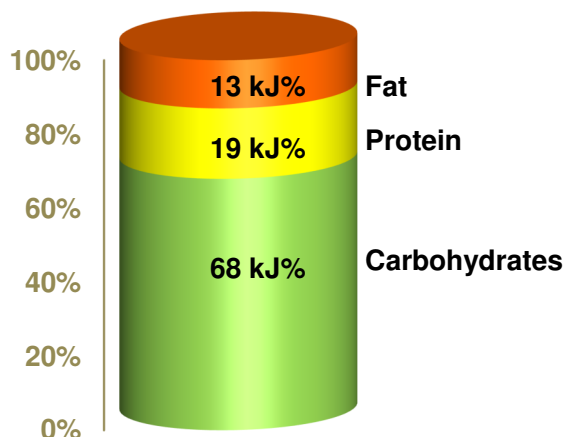
This purified diet does not contain vitamin B₁ supplements. It is therefore used to induce hypovitaminosis B₁ with the typical neurodegenerative disorders.

The diet is intended for ad libitum feeding. The animals should have free access to fresh water.

Gross Energy (GE) 18.1 MJ/kg

Metabolizable Energy (ME)¹⁾ 15.4 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,690 kcal/kg



Crude Nutrients	[%]
Crude protein (N x 6.25)	17.6
Crude fat	5.1
Crude fibre	5.0
Crude ash	5.4
Starch	36.2
Dextrin	14.9
Sugar	11.0
N free extracts	63.0

Minerals	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.41 : 1
Sodium	0.20
Magnesium	0.23
Potassium	0.95

Fatty acids	[%]
C 12:0	—
C 14:0	0.02
C 16:0	0.61
C 17:0	0.01
C 18:0	0.19
C 20:0	0.02
C 16:1	0.01
C 18:1	1.27
C 18:2	2.63
C 18:3	0.29

Amino acids	[%]
Lysine	1.47
Methionine	0.65
Cystine	0.27
Met+Cys	0.92
Threonine	0.78
Tryptophan	0.23
Arginine	0.69
Histidine	0.53
Valine	1.23
Isoleucine	1.00
Leucine	1.75
Phenylalanine	0.92
Phe+Tyr	1.85
Glycine	0.35
Glutamic acid	3.97
Aspartic acid	1.31
Proline	2.02
Serine	1.06
Alanine	0.53

Vitamins	per kg
Vitamin A	15,000 IU
Vitamin D ₃	1,500 IU
Vitamin E	150 mg
Vitamin K (as MNB)	20 mg
Thiamine (B ₁)	<2 mg
Riboflavin (B ₂)	16 mg
Pyridoxine (B ₆)	16 mg
Cobalamin (B ₁₂)	30 µg
Nicotinic acid	49 mg
Pantothenic acid	55 mg
Folic acid	16 mg
Biotin	300 µg
Choline	920 mg

Trace elements	per kg
Iron	168 mg
Manganese	98 mg
Zinc	66 mg
Copper	13 mg
Iodine	1.2 mg
Selenium	0.2 mg

Main products

E15316-10	Meal / Powder
E15316-14	10 mm pellets
E15316-147	10 mm pellets, γ-irradiated 25 kGy

Production and Sale

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This purified diet does not contain vitamin B₆ supplements. Since the active form of vitamin B₆ (Pyridoxal 5'-phosphate) is involved in protein (AA), glucose and lipid metabolism a low endogenous status will result in various metabolic dysfunctions besides of the typical deficiency symptoms (e.g. severe skin lesions, neuropathy etc.).

Gross Energy (GE)	18.1	MJ/kg
Metabolizable Energy (ME) ¹⁾	15.4	MJ/kg

A 3D pie chart illustrating the energy distribution of a 100g carbohydrate snack. The chart is divided into three segments: a large green segment for Carbohydrates (68 kJ%), a yellow segment for Protein (19 kJ%), and a small orange segment for Fat (13 kJ%). A vertical axis on the left shows percentages from 0% to 100% in 20% increments.

Macronutrient	Energy (kJ%)
Carbohydrates	68 kJ%
Protein	19 kJ%
Fat	13 kJ%

Crude protein (N x 6.25)	17.6
Crude fat	5.1
Crude fibre	5.0
Crude ash	5.4
Starch	36.2
Dextrin	14.9
Sugar	11.0
N free extracts	63.0

Calcium	0.92
Phosphorus	0.65
Ca / P	1.41 : 1
Sodium	0.20
Magnesium	0.23
Potassium	0.95

Lysine	1.47
Methionine	0.65
Cystine	0.27
Met+Cys	0.92
Threonine	0.78
Tryptophan	0.23
Arginine	0.69
Histidine	0.53
Valine	1.23
Isoleucine	1.00
Leucine	1.75
Phenylalanine	0.92
Phe+Tyr	1.85
Glycine	0.35
Glutamic acid	3.97
Aspartic acid	1.31
Proline	2.02
Serine	1.06
Alanine	0.53

Vitamin A	15,000	IU
Vitamin D ₃	1,500	IU
Vitamin E	150	mg
Vitamin K (as MNB)	20	mg
Thiamine (B ₁)	26	mg
Riboflavin (B ₂)	16	mg
Pyridoxine (B ₆)	<1	mg
Cobalamin (B ₁₂)	30	μg
Nicotinic acid	49	mg
Pantothenic acid	55	mg
Folic acid	16	mg
Biotin	300	μg
Choline	920	mg

C 12:0	—
C 14:0	0.02
C 16:0	0.61
C 17:0	0.01
C 18:0	0.19
C 20:0	0.02
C 16:1	0.01
C 18:1	1.27
C 18:2	2.63
C 18:3	0.29

Iron	168	mg
Manganese	98	mg
Zinc	66	mg
Copper	13	mg
Iodine	1.2	mg
Selenium	0.2	mg

E15318-10	Meal / Powder
E15318-14	10 mm pellets
E15318-147	10 mm pellets, γ -irradiated 25 kGy

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Folic acid deficient

Purified diet | <0.5 mg/kg folic acid

ssniff



Description

This purified diet does not contain folate supplements. The active form of folic acid, tetrahydrofolate (THF) is involved in C1 metabolism. Folate deficiency induces e.g. pernicious anaemia, high homocysteine levels; most prominent lesions of folate deficiency during pregnancy are congenital neural tube and heart defects.

The diet is intended for ad libitum feeding. The animals should have free access to fresh water.

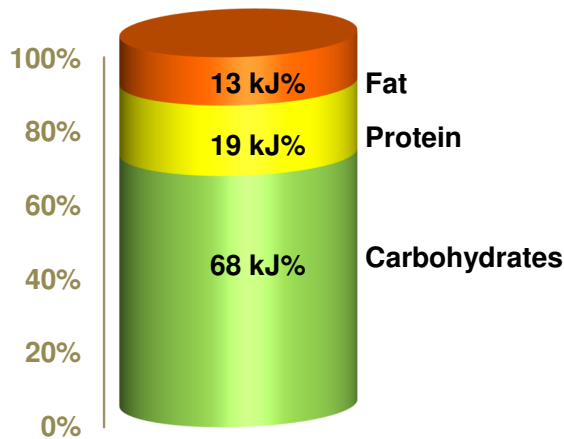
Gross Energy (GE)

18.1 MJ/kg

Metabolizable Energy (ME) ¹⁾

15.4 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,690 kcal/kg



Crude Nutrients

	[%]
Crude protein (N x 6.25)	17.6
Crude fat	5.1
Crude fibre	5.0
Crude ash	5.4
Starch	36.2
Dextrin	14.9
Sugar	11.0
N free extracts	63.0

Minerals

	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.41 : 1
Sodium	0.20
Magnesium	0.23
Potassium	0.95

Fatty acids

	[%]
C 12:0	—
C 14:0	0.02
C 16:0	0.61
C 17:0	0.01
C 18:0	0.19
C 20:0	0.02
C 16:1	0.01
C 18:1	1.27
C 18:2	2.63
C 18:3	0.29

Amino acids

	[%]
Lysine	1.47
Methionine	0.65
Cystine	0.27
Met+Cys	0.92
Threonine	0.78
Tryptophan	0.23
Arginine	0.69
Histidine	0.53
Valine	1.23
Isoleucine	1.00
Leucine	1.75
Phenylalanine	0.92
Phe+Tyr	1.85
Glycine	0.35
Glutamic acid	3.97
Aspartic acid	1.31
Proline	2.02
Serine	1.06
Alanine	0.53

Vitamins

	per kg
Vitamin A	15,000 IU
Vitamin D ₃	1,500 IU
Vitamin E	150 mg
Vitamin K (as MNB)	20 mg
Thiamine (B ₁)	26 mg
Riboflavin (B ₂)	16 mg
Pyridoxine (B ₆)	16 mg
Cobalamin (B ₁₂)	30 µg
Nicotinic acid	49 mg
Pantothenic acid	55 mg
Folic acid	<0.5 mg
Biotin	300 µg
Choline	920 mg

Trace elements

	per kg
Iron	168 mg
Manganese	98 mg
Zinc	66 mg
Copper	13 mg
Iodine	1.2 mg
Selenium	0.2 mg

Main products

E15321-10	Meal / Powder
E15321-14	10 mm pellets
E15321-147	10 mm pellets, γ-irradiated 25 kGy

Production and Sale

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