

Sodium deficient

ssniff

Purified diet without NaCl addition | $\leq 0.03\%$ Na

Description

This purified diet does not contain any sodium compound resulting in very low dietary sodium concentrations. The diet is often used in experiments that focus on the regulation of the Na balance, renal reabsorption and transport proteins. It is also suitable as basal diet for gradual NaCl additions (Na excesses) in kidney and cardiovascular research.

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



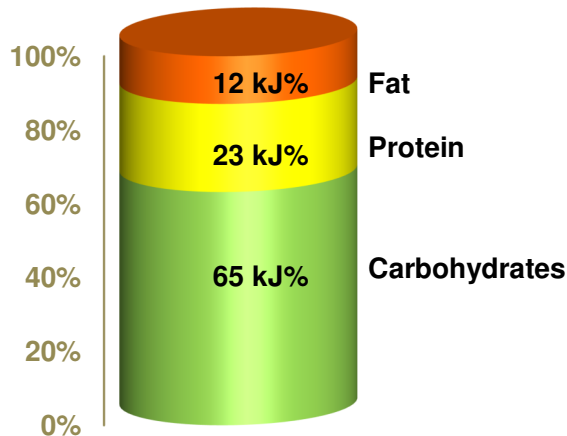
Gross Energy (GE)

18.4 MJ/kg

Metabolizable Energy (ME) ¹⁾

15.5 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,750 kcal/kg



Crude Nutrients

	[%]
Crude protein (N x 6.25)	21.0
Crude fat	5.1
Crude fibre	5.0
Crude ash	4.9
Starch	28.9
Sugar	11.5
N free extracts	60.0

Minerals	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.42 : 1
Sodium	≤ 0.03
Chloride	0.21
Magnesium	0.22
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	1.76
Methionine	0.76
Cystine	0.29
Met+Cys	1.05
Threonine	0.93
Tryptophan	0.28
Arginine	0.83
Histidine	0.64
Valine	1.47
Isoleucine	1.19
Leucine	2.10
Phenylalanine	1.09
Phe+Tyr	2.21
Glycine	0.42
Glutamic acid	4.77
Aspartic acid	1.57
Proline	2.42
Serine	1.27
Alanine	0.64

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	per kg
Iron	169 mg
Manganese	98 mg
Zinc	67 mg
Copper	14 mg
Iodine	1.15 mg
Selenium	0.18 mg

Main products

E15430-20	Meal / Powder
E15430-24	10 mm pellets
E15430-247	10 mm pellets, γ -irradiated 25 kGy

Production and Sale

ssniff Spezialdiäten GmbH
 Phone: +49-(0)2921-9658-0
 Fax: +49-(0)2921-9658-40
 E-Mail: mail@ssniff.de
www.ssniff.de / www.ssniff.com

Control – Sodium adjusted series

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Purified diet with 0.5 % NaCl addition | 0.2 % Na

Description

This purified diet has been supplemented with 0.5 % NaCl resulting in a final Na content of 0.21 %. The diet may serve as control diet within the Na adjusted series.

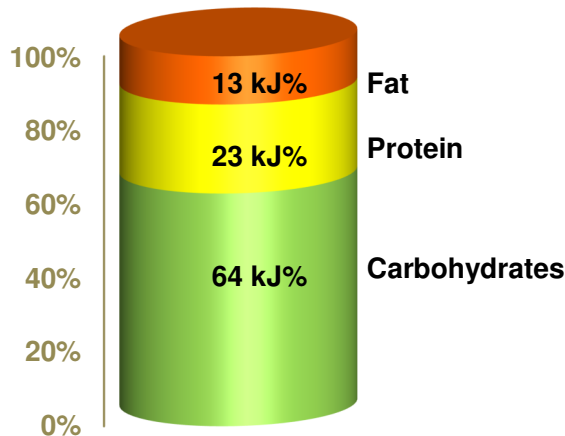
The diet is intended for ad libitum feeding. The animals should have free access to fresh water.



Gross Energy (GE) 18.3 MJ/kg

Metabolizable Energy (ME) ¹⁾ 15.4 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,530 kcal/kg



Crude Nutrients	[%]
Crude protein (N x 6.25)	21.0
Crude fat	5.1
Crude fibre	5.0
Crude ash	5.3
Starch	28.9
Sugar	11.5
N free extracts	59.5

Minerals	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.42 : 1
Sodium	0.21
Chloride	0.49
Magnesium	0.22
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	1.76
Methionine	0.76
Cystine	0.29
Met+Cys	1.05
Threonine	0.93
Tryptophan	0.28
Arginine	0.83
Histidine	0.64
Valine	1.47
Isoleucine	1.19
Leucine	2.10
Phenylalanine	1.09
Phe+Tyr	2.21
Glycine	0.42
Glutamic acid	4.77
Aspartic acid	1.57
Proline	2.42
Serine	1.27
Alanine	0.64

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	per kg
Iron	169 mg
Manganese	98 mg
Zinc	67 mg
Copper	14 mg
Iodine	1.15 mg
Selenium	0.18 mg

Main products

E15430-00	Meal / Powder
E15430-04	10 mm pellets
E15430-047	10 mm pellets, γ-irradiated 25 kGy

Production and Sale

ssniff Spezialdiäten GmbH
 Phone: +49-(0)2921-9658-0
 Fax: +49-(0)2921-9658-40
 E-Mail: mail@ssniff.de
www.ssniff.de / www.ssniff.com

High Sodium – 4 % NaCl

Purified diet with high NaCl addition | 1.71 % Na

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Description

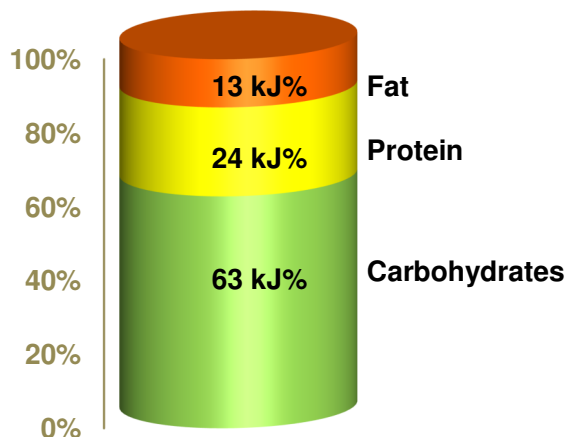
This purified diet of the Na adjusted series has been supplemented with 4 % NaCl. The diet is often used in kidney and cardiovascular research.

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⁾ 14.8 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,530 kcal/kg



Crude Nutrients	[%]
Crude protein (N x 6.25)	21.0
Crude fat	5.1
Crude fibre	5.0
Crude ash	9.2
Starch	26.9
Sugar	11.0
N free extracts	55.5

Minerals	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.42 : 1
Sodium	1.71
Chloride	2.63
Magnesium	0.22
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	1.76
Methionine	0.76
Cystine	0.29
Met+Cys	1.05
Threonine	0.93
Tryptophan	0.28
Arginine	0.83
Histidine	0.64
Valine	1.47
Isoleucine	1.19
Leucine	2.10
Phenylalanine	1.09
Phe+Tyr	2.21
Glycine	0.42
Glutamic acid	4.77
Aspartic acid	1.57
Proline	2.42
Serine	1.27
Alanine	0.64

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	per kg
Iron	169 mg
Manganese	98 mg
Zinc	67 mg
Copper	14 mg
Iodine	1.15 mg
Selenium	0.18 mg

Main products

E15431-30	Meal / Powder
E15431-34	10 mm pellets
E15431-347	10 mm pellets, γ-irradiated 25 kGy

Production and Sale

ssniff Spezialdiäten GmbH
 Phone: +49-(0)2921-9658-0
 Fax: +49-(0)2921-9658-40
 E-Mail: mail@ssniff.de
www.ssniff.de / www.ssniff.com

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Purified diet with 8 % NaCl addition | 3.2 % Na

Description

This purified diet is part of the Na adjusted series and has been supplemented with 8 % NaCl. The diet is often used in kidney and cardiovascular research.

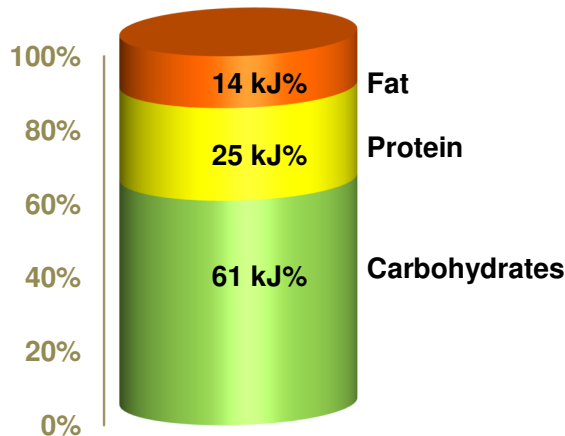
The diet is intended for ad libitum feeding. The animals should have free access to fresh water.



Gross Energy (GE)	17.0 MJ/kg
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Metabolizable Energy (ME) ¹⁾	14.1 MJ/kg
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¹⁾ = Physiological fuel value (Atwater); correspond to 3,370 kcal/kg



Crude Nutrients	[%]
Crude protein (N x 6.25)	21.0
Crude fat	5.1
Crude fibre	5.0
Crude ash	13.0
Starch	24.0
Sugar	11.0
N free extracts	51.7

Minerals	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.42 : 1
Sodium	3.23
Chloride	4.90
Magnesium	0.22
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	1.76
Methionine	0.76
Cystine	0.29
Met+Cys	1.05
Threonine	0.93
Tryptophan	0.28
Arginine	0.83
Histidine	0.64
Valine	1.47
Isoleucine	1.19
Leucine	2.10
Phenylalanine	1.09
Phe+Tyr	2.21
Glycine	0.42
Glutamic acid	4.77
Aspartic acid	1.57
Proline	2.42
Serine	1.27
Alanine	0.64

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	per kg
Iron	169 mg
Manganese	98 mg
Zinc	67 mg
Copper	14 mg
Iodine	1.15 mg
Selenium	0.18 mg

Main products

E15433-30 Meal / Powder

E15433-30	Mical 71 powder
E15433-34	10 mm pellets

E15433-347 10 mm pellets, γ -irradiated 25 kGy

Production and Sale

Production and Sale
ssniff Spezialdiäten GmbH

Phone: +49-(0)2921-9658-0

Fax: +49-(0)2921-9658-40

E-Mail mail@ssniff.de

www.ssniiff.de / www.ssniiff.com

Potassium deficient diet

Purified diet without K addition | $\leq 0.02\%$ K

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Description

This purified diet contains not any potassium supplement resulting in very low dietary K contents ($\leq 0.02\%$ K).

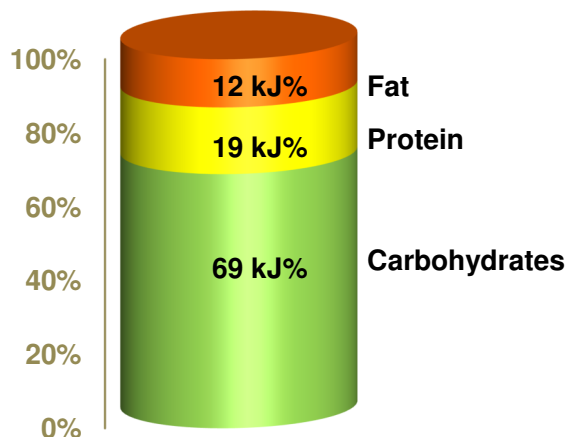
The diet is intended for ad libitum feeding. The animals should have free access to fresh water.



Gross Energy (GE) 18.3 MJ/kg

Metabolizable Energy (ME) ¹⁾ 15.6 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,720 kcal/kg



Crude Nutrients	[%]
Crude protein (N x 6.25)	17.6
Crude fat	5.1
Crude fibre	5.0
Crude ash	4.5
Starch	35.6
Sugar	12.3
N free extracts	63.8

Minerals	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.42 : 1
Sodium	0.22
Magnesium	0.22
Potassium	≤ 0.02

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	1.47
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	0.99
Leucine	1.75
Phenylalanine	0.91
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	16 mg
Biotin	300 µg
Choline	920 mg

Trace elements	per kg
Iron	169 mg
Manganese	98 mg
Zinc	67 mg
Copper	13 mg
Iodine	1.16 mg
Selenium	0.16 mg

Main products

E15450-20	Meal / Powder
E15450-24	10 mm pellets
E15450-247	10 mm pellets, γ -irradiated 25 kGy

Production and Sale

ssniff Spezialdiäten GmbH
 Phone: +49-(0)2921-9658-0
 Fax: +49-(0)2921-9658-40
 E-Mail: mail@ssniff.de
www.ssniff.de / www.ssniff.com

Potassium Excess

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Purified diet with about 14 % potassium citrate | 5 % K

Description

This purified diet has been supplemented with 13.9 % potassium citrate monohydrate resulting in very high dietary potassium concentrations (5 % K). Addition of other potassium compounds (e.g. potassium chloride, bicarbonate and/or sulphate) on request.

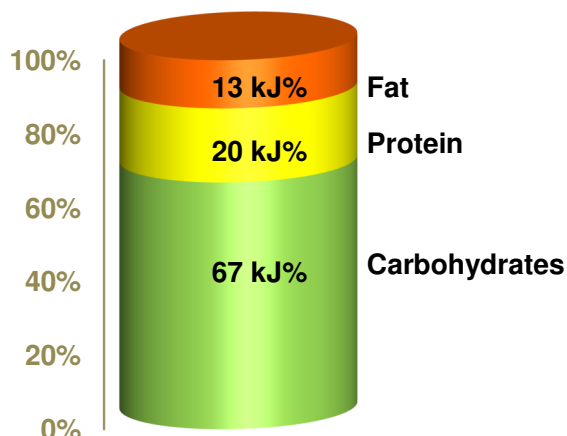
The diet is intended for ad libitum feeding. The animals should have free access to fresh water.



Gross Energy (GE) 17.3 MJ/kg

Metabolizable Energy (ME) ¹⁾ 14.7 MJ/kg

¹⁾ = Physiological fuel value (Atwater); correspond to 3,510 kcal/kg



Crude Nutrients	[%]
Crude protein (N x 6.25)	17.6
Crude fat	5.1
Crude fibre	5.0
Crude ash	9.5
Starch	22.1
Sugar	12.3
N free extracts	58.6

Minerals	[%]
Calcium	0.92
Phosphorus	0.65
Ca / P	1.42 : 1
Sodium	0.22
Magnesium	0.22
Potassium	5.0

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	0.99
Leucine	1.75
Phenylalanine	0.91
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	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	per kg
Iron	169 mg
Manganese	98 mg
Zinc	67 mg
Copper	13 mg
Iodine	1.16 mg
Selenium	0.16 mg

Main products

E15452-40	Meal / Powder
E15452-44	10 mm pellets
E15452-447	10 mm pellets, γ-irradiated 25 kGy

Production and Sale

ssniff Spezialdiäten GmbH
 Phone: +49-(0)2921-9658-0
 Fax: +49-(0)2921-9658-40
 E-Mail: mail@ssniff.de
www.ssniff.de / www.ssniff.com

Iodine deficient (I) – Gluten

Purified diet for rodents | ≤ 0.015 mg/kg Iodine

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Description

This semi-purified diet does not contain iodine supplements. Wheat gluten has been used for the formulation of this diet because the iodine content of casein may vary.

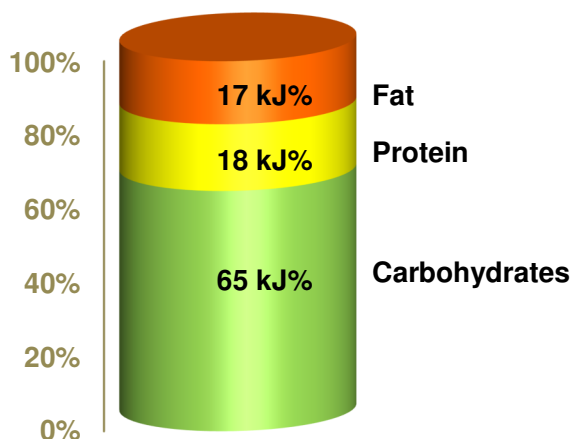
The diet can be supplemented with 6-propyl-2-thiouracil (PTU) on request.

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

Gross Energy (GE) 18.6 MJ/kg

Metabolizable Energy (ME) ¹⁾ 15.9 MJ/kg

¹⁾ = Physiological fuel value (Atwater);
correspond to 3,810 kcal/kg



Crude Nutrients	[%]
Crude protein (N x 6.25)	16.9
Crude fat	7.3
Crude fibre	5.3
Crude ash	5.5
Starch	24.7
Sugar	20.0
N free extracts	61.7

Minerals	[%]
Calcium	0.93
Phosphorus	0.65
Ca / P	1.43 : 1
Sodium	0.20
Magnesium	0.19
Potassium	0.96

Fatty acids	[%]
C 12:0	—
C 14:0	—
C 16:0	0.80
C 17:0	0.01
C 18:0	0.25
C 20:0	0.03
C 16:1	0.01
C 18:1	1.75
C 18:2	3.69
C 18:3	0.41

Amino acids	[%]
Lysine	1.25
Methionine	0.58
Cystine	0.44
Met+Cys	1.02
Threonine	0.78
Tryptophan	0.31
Arginine	0.62
Histidine	0.39
Valine	0.78
Isoleucine	0.57
Leucine	1.13
Phenylalanine	0.82
Phe+Tyr	1.28
Glycine	0.55
Glutamic acid	5.18
Aspartic acid	0.93
Proline	1.80
Serine	0.76
Alanine	0.43

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	1,050 mg

Trace elements	per kg
Iron	209 mg
Manganese	98 mg
Zinc	59 mg
Copper	17 mg
Iodine	— mg
Selenium	0.26 mg

Main products

E15552-20 Meal / Powder
E15552-24 10 mm pellets
E15552-247 10 mm pellets, γ -irradiated 25 kGy

Control diet [E15551] supplemented with potassium iodide to contain 1.15 mg I/kg

Production and Sale

ssniff Spezialdiäten GmbH
Phone: +49-(0)2921-9658-0
Fax: +49-(0)2921-9658-40
E-Mail mail@ssniff.de
www.ssniff.de / www.ssniff.com

Iodine deficient (II) – Casein

Purified diet for rodents | ≤ 0.015 mg/kg Iodine

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Description

This casein based, purified diet contains not any iodine supplement. The total iodine content of the diet is app. 15 µg/kg.

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



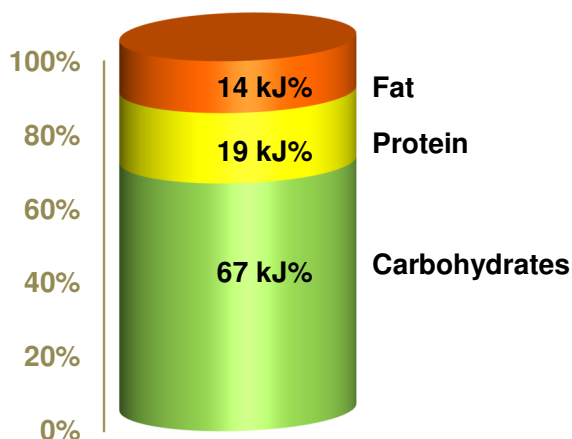
Gross Energy (GE)

18.3 MJ/kg

Metabolizable Energy (ME) ¹⁾

15.6 MJ/kg

¹⁾ = Physiological fuel value (Atwater);
correspond to 3,735 kcal/kg



Crude Nutrients

	[%]
Crude protein (N x 6.25)	17.6
Crude fat	5.6
Crude fibre	5.0
Crude ash	5.4
Starch	19.3
Sugar	25.9
N free extracts	63.1

Minerals

	[%]
Calcium	0.93
Phosphorus	0.65
Ca / P	1.43 : 1
Sodium	0.20
Magnesium	0.19
Potassium	0.96

Amino acids

	[%]
Lysine	1.46
Methionine	0.65
Cystine	0.27
Met+Cys	1.92
Threonine	0.78
Tryptophan	0.23
Arginine	0.69
Histidine	0.53
Valine	1.23
Isoleucine	0.99
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	16 mg
Biotin	300 µg
Choline	920 mg

Fatty acids

	[%]
C 12:0	—
C 14:0	0.01
C 16:0	0.66
C 17:0	0.01
C 18:0	0.20
C 20:0	0.02
C 16:1	0.01
C 18:1	1.40
C 18:2	2.89
C 18:3	0.31

Trace elements

	per kg
Iron	168 mg
Manganese	98 mg
Zinc	68 mg
Copper	13 mg
Iodine	— mg
Selenium	0.16 mg

Main products

E15550-20 Meal / Powder
E15550-24 10 mm pellets
E15550-247 10 mm pellets, γ-irradiated 25 kGy
Control diet [E15550-04] supplemented with potassium iodide
to contain 1.15 mg I/kg

Production and Sale

ssniff Spezialdiäten GmbH
Phone: +49-(0)2921-9658-0
Fax: +49-(0)2921-9658-40
E-Mail mail@ssniff.de
www.ssniff.de / www.ssniff.com