

Diet Identification :

Code :	U8957P Version 0001
Objective :	Fats and Sugars rich Diet 60% of the energy via fat (lard)
Feed intake :	Rat 10 g/d to 25 g/d, Mouse 3 g/d to 6 g/d.
Form :	Paste
Packing :	2 kg bucket, protected by a cardboard box. Possibility to modify on request.
Preservation :	4°C
Lifetime :	6 months
Irradiation :	Possible 10, 25 or 40 kilogray



Non contractual picture

Ingredients : Sucrose, lard, casein, pre-mixture of minerals PM 205B, pre-mixture of vitamins PV 200 1%

Nutritive Composition :

Nutrients	%	Kcal/kg	Kcal/kg
Protein	18,3	Minerals	4,4
Fat	36,0	Cellulose	0,0
Carbohydrate	38,8	Starch	1,3
Energy	MJ/kg	kcal/kg	%
Atwater	23,1	5524,0	
Protein	3,1	730,4	13,2
Fat	13,6	3242,5	58,7
Carbohydrate	6,5	1551,2	28,1
	mg/kg		mg/kg
Na	2403,9	Fe	90,5
K	3195,3	Cu	74,8
Mg	1057,8	Zn	269,1
Ca	7121,8	P	5655,1
Mn	454,2	Cl	6798,8
	UI/Kg		mg/kg
Vit. A	20000,0	Vit. K3	18,1
Vit. E	183,6	Vit. B1	20,0
Vit. D3	2500,0	Vit. B4	1012,5
	%		%
Glucose.	-	Sucrose	34,96
Fructose	-	Lactose	0,03

	mg/kg		mg/kg
Arg.	0,72	Thr	0,83
Lys.	1,57	Trp	0,22
Met	0,57	Met+Cys	0,65
	mg/kg		mg/kg
Sum SFA	138675	Sum n-3	3598
C16:0	86278	ALA	3598
C18:0	47256	EPA	-
Sum UFA	199485	DHA	-
C18:1	143916	DPA	-
Sum MUFA	156328	Sum n-6	39559
Sum PUFA	43157	LA	33473
		AG trans (-CLA)	1368
		CLA	-

The hardness of custom diets is generally lower than the standard chow, it's recommended to add TOP BRICKS for proper teeth wear and proper expression of the rodent's behavior.



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Bibliography :

Exercise does not activate the $\beta 3$ adrenergic receptor-eNOS pathway, but reduces inducible NOS expression to protect the heart of obese diabetic mice

Adrien Kleindienst, Sylvain Battault, Elise Belaidi, Stephane Tanguy, Marie Rosselin, Doria Boulghobra, Gregory Meyer, Sandrine Gayraud, Guillaume Walther and 4 more

Basic Research in Cardiology, 111:40, 2016 06; DOI : 10.1007/s00395-016-0559-0

WEB >> <http://link.springer.com/article/10.1007/s00395-016-0559-0>

Western diet induces a shift in microbiota composition enhancing susceptibility to Adherent-Invasive E. coli infection and intestinal inflammation.

Allison Agus,1 Jérémy Denizot,1 Jonathan Thévenot,1,2 Margarita Martinez-Medina,1 Sébastien Massier,1 Pierre Sauvanet,1,3 Annick Bernalier-Donadille,4 Sylvain Denis,2 Paul Hofman,5 Richard Bonnet,1,6 Elisabeth Billard,1,7 and Nicolas Barnicha,1,7

Scientific Reports, 6:19032, 2016 01 08; DOI : 10.1038/srep19032

WEB >> <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4705701/>

Visceral adipose tissue and leptin increase colonic epithelial tight junction permeability via a RhoA-ROCK-dependent pathway

Gwenola Le Dréan, Vianney Haure-Mirande, Laurent Ferrier, Christian Bonnet, Philippe Hulin, Pierre de Coppet and Jean-Pierre Segain

FASEB J., vol. 28 1059-1070, 2014 03; DOI : 10.1096/fj.13-234203

WEB >> <http://www.fasebj.org/content/early/2013/11/14/fj.13-234203.short>

Disturbed intestinal nitrogen homeostasis in a mouse model of high-fat diet-induced obesity and glucose intolerance

Thi Thu Huong Do, Patrick Hindlet, Anne-Judith Waligora-Dupriet, Nathalie Kapel, Nathalie Neveux, Virginie Mignon, Claudine Deloménie, Robert Farinotti, Bruno Fève, Marion Buyse

Am J Physiol Endocrinol Metab., 306(6):E668-80, 2014 03; DOI : 10.1152/ajpendo.00437.2013

WEB >> <http://ajpendo.physiology.org/content/306/6/E668>

Western diet induces dysbiosis with increased E coli in CEABAC10 mice, alters host barrier function favouring AIEC colonisation

Margarita Martinez-Medina^{1,2,3}, Jérémy Denizot^{1,2}, Nicolas Dreux^{1,2}, Frédéric Robin^{1,2,4}, Elisabeth Billard^{1,2,5}, Richard Bonnet^{1,2,4}, Arlette Darfeuille-Michaud^{1,2,4,5}, Nicolas Barnich^{1,2,5}

Gut microbiota, 63:116-124, 2014 01; DOI : 10.1136/gutjnl-2012-304119

WEB >> <http://gut.bmj.com/content/63/1/116.abstract>

Properties of myenteric neurones and mucosal functions in the distal colon of diet-induced obese mice.

Reichardt F, Baudry C, Gruber L, Mazzuoli G, Moriez R, Scherling C, Kollmann P, Daniel H, Kisling S, Haller D, Neunlist M, Schemann M.

J Physiol, 591(Pt 20):5125-39, 2013 10 15; DOI : 10.1113/jphysiol.2013.262733

WEB >> <http://jp.physoc.org/content/591/20/5125.short>

Dietary fat without body weight gain increases in vivo MCF-7 human breast cancer cell growth and decreases natural killer cell cytotoxicity

Bruno Lamas, Rachida Nachat-Kappes, Nicolas Goncalves-Mendes, Florence Mishellany, Adrien Rossary, Marie-Paule Vasson, Marie-Chantal Farges

Molecular Carcinogenesis, 2013 09 04; DOI : 10.1002/mc.22074

WEB >>

<http://onlinelibrary.wiley.com/doi/10.1002/mc.22074/abstract?deniedAccessCustomisedMessage=&userIsAuthenticated=false>

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