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Listing of selected negative health claim opinions by the European Food Safety Authority (EFSA)

Including reference to reasons for refusal and known health benefits*

October 2011

*Health benefits sourced from Natural Standard database (http://naturalstandard.com) unless separate reference to peer reviewed journal given.

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
Probiotics - many separate strains			
Bifidobacterium longum BB536	Improvement of bowel regularity	The human intervention studies provided had weaknesses in the	Acute diarrhoea
		study designs and statistical	Prevention of atopic
		analyses, and no conclusions could be drawn from these	dermatitis/eczema in children
		studies for the scientific	Reduction of faecal
		substantiation of the claimed effect	acidity/ammonia in liver cirrhosis
		5.1.553	Possible reduction of childhood
		The Panel concludes that a	dental caries
		cause and effect relationship	
		has not been established	Possible faster growth in infants
	Normal resistance to cedar pollen	No references were provided	
	allergens	from which conclusions could	Possible immune enhancement
		be drawn for the scientific	
		substantiation of the claimed	Possible improvement of
		effect	symptoms associated with
			irritable bowel syndrome
		The Panel concludes that a	
		cause and effect relationship	May help prevent pancreatic
		has not been established	infection (sepsis), reduce the
	Decreasing potentially pathogenic	No human studies were	number of operations needed,
	gastro-intestinal microorganisms	provided from which	and reduce the length of hospital
		conclusions could be drawn for	stay in treatment of acute
		the scientific substantiation of	pancreatitis
		the claimed effect	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		The Panel concludes that a cause and effect relationship has not been established	May reduce frequency of relapses and the need for antibiotic therapy
Bifidobacterium animalis ssp. lactis Bb-12	Immune defence against pathogens	No human studies have been provided from which conclusions for the scientific substantiation of the claimed effect could be drawn	Improvement of ulcerative colitis May help treat allergic conditions, especially in infants
		The Panel concludes that a cause and effect relationship has not been established	May decrease duration of symptoms in amoebiasis Treatment of bacterial vaginosis
	Decreasing potentially pathogenic gastro-intestinal microorganisms	From the human intervention studies provided, the only significant changes reported were related to bifidobacteria, Bacteroidaceae and Clostridium perfringens. The Panel notes that these microorganisms are	during pregnancy Treatment of Helicobacter pylori infestation Reduced risk of severe necrotizing fasciitis and mortality
		part of the commensal intestinal microbiota, and that the studies did not provide evidence for the characterisation of any of these groups as pathogens. The Panel considers that no conclusions	in preterm infants Prevention of post-operative pouchitis

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		can be drawn from these	
		studies for the scientific	
		substantiation of the claimed	
		effect	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
	"Natural immune function"	The claimed effect is not	
		sufficiently defined and no	
		further details were given in the	
		proposed wording or	
		clarifications provided by	
		Member States. Given the	
		multiple roles of the immune	
		system, the specific aspect of	
		immune function that is the	
		subject of the claim needs to be	
		specified, but has not been	
		indicated in the information	
		providedThe Panel considers	
		that the claimed effect is	
		general and non-specific, and	
		does not refer to any specific	
		health claim as required by	
		Regulation (EC) No 1924/2006	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
8	Reduction of symptoms of inflammatory bowel conditions	The claimed effect is "natural immune function". In the context of the proposed wording, the Panel assumes that the claimed effect refers to the reduction of symptoms of inflammatory bowel conditions. The Panel notes that inflammatory bowel conditions are associated with Crohn's disease or ulcerative colitis, and that the target population for the claim is patients with Crohn's disease or ulcerative colitis.	
	Maintenance of normal blood LDL-cholesterol concentrations	The Panel considers that the claim does not comply with the criteria laid down in Regulation (EC) No 1924/2006 No references have been provided from which conclusions could be drawn for the scientific substantiation of the claimed effect The Panel concludes that a	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		cause and effect relationship has not been established	
Bifidobacterium animalis Lafti B94 (CBS118.529)	"Intestinal flora"	The Panel assumes that the claimed effect refers to aspects of: "probiotic, enhance levels of beneficial microflora, support a balanced/beneficially affect intestinal microflora" The Panel notes that the human study cited in the list did not address the relationship between the consumption of Bifidobacterium animalis Lafti B94 (CBS118.529) and the claimed effect. The in vitro and animal studies provided limited evidence to support the claimed effect in humans and that the remaining references did not provide any scientific data that could be used to substantiate the claimed effect	
		The Panel concludes that a	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		cause and effect relationship has not been established	
Bifidobacterium Bb-12 and soluble fibre in fermented dairy products	"Healthy digestion"	The claimed effect "healthy digestion" is not sufficiently defined but in the context of the proposed wording, the Panel assumes that the claimed effect relates to aspects of promoting the growth of "beneficial" bacteria and decreasing potentially pathogenic intestinal microorganisms. The soluble fibre is not sufficiently characterisedAs the information provided in the list is insufficient to characterise the soluble fibre in the fermented dairy products and the references cited did not	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		provide any scientific data that could be used to substantiate the claimed effect, the Panel concludes that a cause and effect relationship has not been established between the consumption of "Bifidobacterium animalis ssp. lactis Bb-12 and soluble fibre in fermented dairy products" and decreasing potentially pathogenic intestinal microorganismsThe Panel concludes that a cause and effect relationship has not been established	
Combination of Lactobacillus delbrueckii subsp. bulgaricus AY/CSL (LMG P-17224) and Streptococcus thermophilus 9Y/CSL (LMG P-17225)	"Beneficial modulation of the intestinal microflora"	Based on current scientific knowledge, it is not possible to define the exact numbers/proportions of the different microbial groups which constitute a "beneficial" or "normal" intestinal microbiota. Increasing the number of any group of microorganisms, including lactobacilli and/or	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		bifidobacteria, is not considered	
		in itself a beneficial	
		physiological effect. Thus, the	
		applicant was requested to	
		provide the rationale regarding	
		the extent to which the claimed	
		effect is a beneficial	
		physiological effect. No reply	
		was received from the applicant	
		to the Panel's request for	
		supplementary information.	
		The Panel considers that no	
		evidence has been provided by	
		the applicant to establish that	
		the claimed effect, "beneficial	
		modulation of the intestinal	
		microflora", is a beneficial	
		physiological effect	
		p., joiological circut	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
		has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
Lactobacillus rhamnosus GR-1 (ATCC 55826) in combination with Lactobacillus reuteri RC-14 (ATCC 55845)	"Vaginal health/flora"	The Panel assumes that the claimed effect refers to defence against vaginal pathogens by increasing the number of lactobacilli and/or decreasing potentially pathogenic bacteria and/or yeasts	
		No references were provided from which conclusions could be drawn for the scientific substantiation of the claim	
		The Panel concludes that a cause and effect relationship has not been established	
Lactobacillus johnsonii NCC 533 (La1) (CNCM I-1225)	Improving immune defence against pathogenic gastro-intestinal microorganisms	No human studies from which conclusions could be drawn for the scientific substantiation of the claim were providedThe Panel concludes that a cause and effect relationship has not been established	
	Protection of the skin from UV- induced damage	No human studies from which conclusions could be drawn for the scientific substantiation of the claim were provided	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
Lactobacillus rhamnosus ATCC	"Gastro-intestinal health"	The claimed effect is not	
53103 (LGG)		sufficiently defined, and no	
		further details were provided in	
		the proposed wordings. The	
		Panel notes that the references	
		provided addressed several	
		effects, and that it was not	
		possible to establish the effect	
		which is the target for the claim	
		The Panel considers that the	
		claimed effect is general and	
		non specific, and does not refer	
		to any specific health claim as	
		required by Regulation (EC) No	
		1924/2006.	
	Maintenance of tooth	The only human study provided	
	mineralisation	from which conclusions could	
		be drawn for the scientific	
		substantiation of the claim did	
		not show an effect of L.	
		rhamnosus ATCC 53103 (LGG)	
		consumption on reduction of	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		dental caries at any site compared to placebo, the reduction of which could indicate an effect on maintenance of tooth mineralisation	
		The Panel concludes that a cause and effect relationship has not been established	
Lactobacillus rhamnosus LB21 NCIMB 40564	"Digestive system, immune system"	The Panel assumes that the claimed effect refers to the maintenance of individual intestinal microbiota in subjects receiving antibiotic treatment.	
		No references were provided from which conclusions could be drawn for the scientific substantiation of the claimed effect.	
		The Panel concludes that a cause and effect relationship has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
Lactobacillus johnsonii BFE 6128	"Natural defences/immune system" "Skin health"	The claimed effect is not sufficiently defined and no further details were given in the proposed wording or the clarifications provided by Member States. The Panel considers that the claimed effect is general and nonspecific, and does not refer to any specific health claim as required by Regulation (EC) No 1924/2006.	
Lactobacillus plantarum BFE 1685	"Natural defences/immune system"	The claimed effect is not sufficiently defined and no further details were given in the proposed wording or the clarifications provided by Member States. Several effects/parameters were mentioned in the information provided, and it was not possible to establish which specific effect is the target for the claim. The Panel considers that the claimed effect is general and	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		non-specific, and does not refer to any specific health claim as required by Regulation (EC) No 1924/2006.	
Lactobacillus fermentum ME-3	"A probiotic lactic acid bacterium Lactobacillus fermentum ME-3 helps to strengthen the organism's defence ability. ME-3 supports digestion by increasing in the intestine the total number of useful lactobacilli which ensure the break-down of nutrients into compounds that can be easily absorbed"	The Panel considers that the evidence provided does not establish that increasing numbers of intestinal microorganisms is a beneficial physiological effect. The Panel considers that decreasing potentially pathogenic gastrointestinal microorganisms might be a beneficial physiological effect. No human studies were provided which addressed outcomes related to the claimed effect.	
		The Panel concludes that a cause and effect relationship has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
Lactobacillus plantarum 299v	Reduction of flatulence and	In weighing the evidence, the	
	bloating	Panel took into account that no	
		conclusions can be drawn for	
		the scientific substantiation of	
		the claimed effect from the	
		three studies provided that	
		addressed outcomes related to	
		the claimed effect.	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
	Protection of DNA, proteins and	No human studies that	
	lipids from oxidative damage	addressed the effect of	
		Lactobacillus plantarum 299v	
		alone on outcomes related to	
		the claimed effect were	
		provided.	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
Lactobacillus paracasei LMG P-	Decreasing potentially pathogenic	No human studies were	
22043	gastro-intestinal microorganisms	provided which addressed	
		outcomes related to the	
		claimed effect.	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		The Panel concludes that a cause and effect relationship has not been established	
	Reduction of gastro-intestinal discomfort	No references were provided from which conclusions could be drawn for the scientific substantiation of the claimed effect. The Panel concludes that a cause and effect relationship has not been established	
Lactobacillus fermentum CECT5716	"Natural defence/immune system"	The Panel assumes that the claimed effect refers to the maintenance of the upper respiratory tract defence against pathogens by maintaining immune defences	
		In weighing the evidence, the Panel took into account that the only human study provided did not show an effect of Lactobacillus fermentum CECT5716 consumption on the maintenance of the upper respiratory tract defence against pathogens by maintaining immune defences.	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		The Panel concludes that a cause and effect relationship has not been established	
Lactobacillus plantarum 299 (DSM 6595, 67B) (ID 1078)	"Increase the amount of lactobacilli in the intestine/decrease the amount of enterobacteriaceae/inhibit pathogenic bacteria"	No references were provided from which conclusions could be drawn for the scientific substantiation of the claimed effect.	
		The Panel concludes that a cause and effect relationship has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
Lactobacillus gasseri CECT5714 and	"Natural defence/immune	The Panel assumes that the	
Lactoba coryniformis CECT5711	system"	claimed effect refers to	
		increasing/strengthening the	
		immune system and natural	
		defences by stimulating the	
		production of antibodies and	
		cytokines, increasing natural	
		killer cell numbers/activity and	
		increasing the phagocytic	
		activity of granulocytes and	
		monocytes.	
		The Danel considers that the	
		The Panel considers that the	
		evidence provided does not	
		establish that changing	
		parameters of the immune	
		system, such as the production	
		of cytokines, increasing natural	
		killer cell numbers/activity and	
		increasing the phagocytic	
		activity of granulocytes and	
		monocytes, is per se a	
		beneficial physiological effect.	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
Lactobacillus reuteri ATCC 55730	"Natural defence"	"Natural defence" is not sufficiently defined and no further details were provided in the proposed wording. The references cited addressed several effects and endpoints, and it is not possible to establish which effect is the target for the claim. The Panel considers that the claimed effect is general and nonspecific and does not refer to any specific health claim as required by Regulation (EC) No 1924/2006.	
Lactobacillus paracasei B21060	Decreasing potentially pathogenic gastro-intestinal microorganisms	No human studies were provided that addressed endpoints related to decreasing potentially pathogenic gastrointestinal microorganisms and the evidence provided in in vitro studies alone is not sufficient to predict an effect of L. paracasei B21060 consumption on the claimed effect.	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		The Panel concludes that a cause and effect relationship has not been established	
	Maintenance of a normal intestinal transit time	No human studies were provided that addressed endpoints related to intestinal transit time.	
		The Panel concludes that a cause and effect relationship has not been established	
	Reduction of gastro-intestinal discomfort	In weighing the evidence, the Panel took into account that the one human intervention study submitted measured endpoints related to the claimed effect, but failed to show a significant difference in the intention-to-treat analysis.	
		The Panel concludes that a	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		cause and effect relationship has not been established	
"Brassica oleracea var. italica (broccoli)"	Protection of cells and molecules, including cells of the immune system, against oxidative damage	The information given in the consolidated list and in the references provided did not allow the Panel to sufficiently	Protective effects against cancer, possibly due to high levels of glucosinolates
		characterise the foods/food constituents which are the subject of this opinion.	Beneficial effects on fibromyalgia in women
		The Panel considers that the foods/food constituents which are the subject of this opinion	Treatment of <i>Helicobacter pylori</i> infection
		are not sufficiently characterised, or are not sufficiently characterised in relation to the proposed claimed effects.	Antihyperlipidaemic effects

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
Green tea (Camellia	Improvement of endothelium-	The Panel considers that	May reduce allergy symptoms
sinensis)Including tea, catechins	dependent vasodilation	whereas Camellia sinensis (L.)	associated with Japanese cedar
present in green tea, green tea		Kuntze (tea) and green tea	pollinosisMay have beneficial
extract and epigallo-catechin-3-		extract are not sufficiently	effects on anxietyMay safely
gallate (EGCG)		characterised in relation to the	improve blood pressure and
		claimed effects, catechins in	cholesterol levels in obese
		green tea (including EGCG) are	childrenA specific formulation of
		sufficiently characterisedNo	green tea may help prevent cold
		references were provided from	and flu symptomsMay be
		which conclusions could be	effective in reducing dental
		drawn for the scientific	plaqueMay decrease clinical signs
		substantiation of the claimed	of periodontal diseaseMay
		effect.The Panel concludes that	decrease viral load in carriers of
		a cause and effect relationship	the HTLV-1 virusMay have
		has not been established	beneficial effects on blood lipids
	Maintenance of normal blood	A claim on EGCG in green tea	in individuals with
	pressure	(Camellia sinensis (L.) Kuntze)	hypercholesterolemiaMay
		and maintenance of normal	decrease postprandial
		blood pressure has already	triglyceride levels in individuals
		been assessed with an	with hypertriglyceridemiaMay
		unfavourable outcome, and the	reduce the risk of liver
		references cited for this claim	diseaseMay improve
		did not provide any additional	cognitionMay ameliorate serious
		scientific data which could be	obesity and cardiovascular
		used to substantiate the claim.	disease riskMay reduce markers
		(The original ruling stated that	of oxidative stress in patients
		"In weighing the evidence, the	with pulmonary tuberculosis

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		Panel took into account that	
		none of the human studies	
		presented reported on daily	
		intakes of the food constituent	
		that is the subject of this health	
		claim (i.e., EGCG in green tea),	
		and that the evidence provided	
		in the animal studies does not	
		predict the occurrence of an	
		effect of green tea (including	
		EGCG) consumption on the	
		maintenance of normal blood	
		pressure in humans.")	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
	Maintenance of normal blood	A claim on catechins (including	
	glucose concentrations	EGCG) from green tea (Camellia	
		sinensis (L.) Kuntze) and the	
		long term maintenance of	
		normal blood glucose	
		concentrations has already	
		been assessed with an	
		unfavourable outcome, and the	
		references cited for this claim	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		did not provide any additional	
		scientific data which could be	
		used to substantiate the claim.	
		(The original decision stated:	
		"No references were provided	
		from which conclusions could	
		be drawn for the scientific	
		substantiation of the claimed	
		effect.")	
	Maintenance of normal blood LDL	A claim on catechins in green	
	cholesterol concentrations	tea (Camellia sinensis (L.)	
		Kuntze) and maintenance of	
		normal blood cholesterol	
		concentrations has already	
		been assessed with an	
		unfavourable outcome, and the	
		references cited for this claim	
		did not provide any additional	
		scientific data which could be	
		used to substantiate the	
		claim.The Panel concludes that	
		a cause and effect relationship	
		has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	Protection of the skin from UV- induced (including photo- oxidative) damage	No human studies which addressed outcome measures related to the claimed effect following consumption of the food that is the subject of the health claim were provided.	
	Protection of DNA, proteins and	The Panel concludes that a cause and effect relationship has not been established No studies with appropriate	
	lipids from oxidative damage	endpoints to assess oxidative damage of DNA within cells, oxidative damage to proteins, or studies investigating a sustained effect of green tea catechins on lipid peroxidation have been presented to substantiate the claimed effect.	
		The Panel concludes that a cause and effect relationship has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	Protection of lipids from oxidative damage	A claim on catechins (including EGCG) in green tea (Camellia sinensis (L.) Kuntze) and protection of DNA, proteins and lipids from oxidative damage has already been assessed with an unfavourable outcome, and the references cited for this claim did not provide any additional scientific data which could be used to substantiate the claim.	
	Contribution to normal cognitive function	The Panel concludes that a cause and effect relationship has not been established No human studies were provided from which conclusions could be drawn for the scientific substantiation of the claimed effect. The Panel concludes that a cause and effect relationship has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	"Cardiovascular system"	The claimed effect is not	
		sufficiently defined and no	
		further details were provided in	
		the proposed wording or the	
		clarifications provided.The	
		Panel considers that the	
		claimed effect is general and	
		non-specific, and does not refer	
		to any specific health claim as	
		required by Regulation (EC) No	
		1924/2006.	
	"Invigoration of the body"	The claimed effect is not	
		sufficiently defined and no	
		further details were provided in	
		the proposed wording or the	
		clarifications provided.	
		The Panel considers that the	
		claimed effect is general and	
		non-specific, and does not refer	
		to any specific health claim as	
		required by Regulation (EC) No	
		1924/2006.	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	Decreasing potentially pathogenic	The Panel assumes that the	
	gastro-intestinal microorganisms	claimed effect refers to	
		increasing the number of	
		"beneficial" bacteria and	
		decreasing the number of	
		potentially pathogenic bacteria.	
		The Panel considers that the	
		evidence provided does not	
		establish that increasing	
		numbers of gastro-intestinal	
		microorganisms is a beneficial	
		physiological effect. (NB The	
		original decision felt that this	
		"might" be a beneficial effect.)	
		A claim on catechins in green	
		tea (Camellia sinensis (L.)	
		Kuntze) and decreasing	
		potentially pathogenic	
		intestinal microorganisms has	
		already been assessed with an	
		unfavourable outcome, and the	
		references cited for this claim	
		did not provide any additional	
		scientific data which could be	
		used to substantiate the claim.	
		(The original decision stated	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		that "No human studies which addressed the effects of catechins in green tea (Camellia sinensis (L.) Kuntze) on the number of potentially pathogenic intestinal microorganisms were provided.)	
		The Panel concludes that a cause and effect relationship has not been established	
	"Immune health"	The claimed effect is not sufficiently defined and no further details were provided in the proposed wording or the clarifications provided.	
		The Panel considers that the claimed effect is general and non-specific, and does not refer to any specific health claim as required by Regulation (EC) No 1924/2006.	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	"Mouth"	The target population is	
		assumed to be the general	
		population. The claimed effect	
		is not sufficiently defined and	
		no further details were	
		provided in the proposed	
		wording or the clarifications	
		provided.The Panel considers	
		that the claimed effect is	
		general and non-specific, and	
		does not refer to any specific	
		health claim as required by	
		Regulation (EC) No 1924/2006.	
	Contribution to the maintenance	In weighing the evidence, the	
	or achievement of a normal body	Panel took into account that the	
	weight	only intervention study from	
		which sufficient information	
		was available for a scientific	
		evaluation found no effect of	
		EGCG consumption on body	
		weight.	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	Increased beta-oxidation of fatty acids leading to a reduction in body fat mass	No references were provided from which conclusions could be drawn for the scientific substantiation of the claimed effect.	
		The Panel concludes that a cause and effect relationship has not been established	
	Maintenance of bone	No human studies which addressed the effects of either catechins or tannins in <i>Camellia sinensis</i> (L.) Kuntze on bone were provided.	
		The Panel concludes that a cause and effect relationship has not been established	
	Reduction of acid production in dental plaque	No human studies investigating the effect of the consumption of either catechins or tannins in Camellia sinensis (L.) Kuntze on acid production were presented.	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		The Panel concludes that a cause and effect relationship has not been established	
	Maintenance of vision	No human studies which addressed the effects of catechins in green tea (<i>Camellia sinensis</i> (L.) Kuntze) on maintenance of normal vision were provided. The Panel concludes that a cause and effect relationship has not been established	
	Maintenance of normal blood cholesterol concentrations	In weighing the evidence, the Panel took into account that all three small-scale human randomised, placebo-controlled intervention trials presented failed to observe an effect of green tea catechin consumption on blood cholesterol concentrations.	
		The Panel concludes that a cause and effect relationship	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		has not been established	
Vaccinium macrocarpon (cranberry)	Defence against bacterial pathogens in the lower urinary tract	The Panel considers that the foods/food constituents which are the subject of this opinion are not sufficiently characterised, or are not sufficiently characterised in relation to the proposed claimed effects.	There is highly suggestive evidence to support the use of cranberry for prophylaxis of urinary tract infections Reduces bacterial populations in paediatric urinary tract infections May possess antioxidant properties due to presence of ascorbic acid May be used to prevent urinary tract symptoms during external radiation therapy for patients being treated for prostate cancer May reduce urine odor associated with incontinence or intermittent bladder

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
			catheterization
Antioxidants: various food(s)/food	Protection of cells from	The Panel considers that the	References in the following
constituent(s) and protection of	premature ageing (including 'anti-	claimed effect "anti-cancer"	review: Ames BN. Optimal
cells from premature ageing,	cancer')	relates to the prevention of a	micronutrients delay
antioxidant activity, antioxidant		human disease and does not	mitochondrial decay and age-
content and antioxidant properties,		comply with the criteria laid	associated diseases. Mech Ageing
protection of DNA, proteins and		down in Regulation (EC) No	Dev. 2010; 131 (7-8): 473-9. Epub
lipids from oxidative damage, and		1924/2006.No definition has	2010 Apr 24.
bioavailability of anthocyanins in		been provided of "premature	Review.Phytonutrient dense
blackcurrants		(skin) ageing", "healthy ageing",	diets exert anti-ageing
		"oxidation-induced ageing" or	effects:Willcox DC, et al. The
		"cellular ageing" in relation to	Okinawan diet: health
		the antioxidant properties of	implications of a low-calorie,
		foods. The Panel considers that	nutrient-dense, antioxidant-rich
		these claimed effects are	dietary pattern low in glycemic
		general and non-specific and do	load. J Am Coll Nutr. 2009; 28
		not refer to any specific health	Suppl: 500S-516S.
		claim as required by Regulation	
		(EC) No 1924/2006.	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	Antioxidant activity, antioxidant	The Panel considers that claims	References in the following
	content and antioxidant	made on the antioxidant	review: Obrenovich ME, et al.
	properties	capacity/content or properties	Antioxidants in health, disease
		of foods/food constituents	and aging. CNS Neurol Disord
		based on their capability of	Drug Targets. 2011; 10(2): 192-
		scavenging free radicals in vitro	207.
		refer to a property of the	
		food/food constituent	
		measured in model systems.	
		The information provided does	
		not establish that this capability	
		as such exerts a beneficial	
		physiological effect in humans.	
		No evidence has been provided	
		to establish that having	
		antioxidant activity/content	
		and/or antioxidant properties is	
		a beneficial physiological effect.	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	Protection of DNA, proteins and lipids from oxidative damage	No human studies that investigated the effects of the consumption of the food(s)/food constituent(s) on reliable markers of oxidative damage to body cells or to molecules such as DNA, proteins and lipids have been provided in relation to any of the health claims evaluated in this opinion.	References in the following review: Ames BN. Low micronutrient intake may accelerate the degenerative diseases of aging through allocation of scarce micronutrients by triage. Proc Natl Acad Sci U S A. 2006; 103(47): 17589-94. Epub 2006 Nov 13.
		The Panel concludes that a cause and effect relationship has not been established	
Dried plums of 'prune' cultivars (Prunus domestica L.)	"Normal bowel function/normal gastrointestinal function/normal colonic function"	In weighing the evidence, the Panel took into account that one human intervention study did not find any significant difference between the two treatment groups or between different time-points within each group and that the other human intervention study showed some effect on faecal bulk but not on stool frequency or consistency. Another human	Piirainen L, et al. Prune juice has a mild laxative effect in adults with certain gastrointestinal symptoms, Nutrition Research, 2007; 27 (8): 511-513.Attaluri A, Donahoe R, Valestin J, Brown K, Rao SS. Randomised clinical trial: dried plums (prunes) vs. psyllium for constipation. Aliment Pharmacol Ther. 2011; 33(7): 822-8. doi: 10.1111/j.1365-2036.2011.04594.x. Epub 2011

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		intervention study cited used another intervention than dried "prunes" and the other references provided only background information and did not provide scientific data that could be used to substantiate the claim. The Panel concludes that the evidence provided is insufficient to establish a cause and effect relationship	Feb 15.
Carotenoids (also see 'antioxidants')	"Antioxidant properties/protection of DNA", "health during pregnancy/bioavailability" and "skin"	The Panel considers that the foods/food constituents, which are the subject of this opinion, are not sufficiently characterised in relation to the claimed effects.	References in the following: Podsędek A. Natural antioxidants and antioxidant capacity of Brassica vegetables: A review, LWT - Food Science and Technology, 2007; 40(1); 1-11.
Astaxanthin	Protection of the skin from UV-induced damage	No human studies have been provided from which conclusions could be drawn for the scientific substantiation of the claim. The Panel concludes that a cause and effect relationship has not been established	May inhibit LDL oxidation

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	Defence against Helicobacter	No human studies have been	
	pylori	provided from which	
		conclusions could be drawn for	
		the scientific substantiation of	
		the claim.	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
	Contribution to normal	In weighing the evidence, the	
	spermatogenesis	Panel took into account that the	
		one human intervention study	
		provided did not show an effect	
		of astaxanthin, compared to	
		placebo, on various measures	
		of sperm quality in males.	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
	Contribution to normal muscle	The Panel considers that the	
	function	claimed effect is general and	
		non-specific, and does not refer	
		to any specific health claim as	
		required by Regulation (EC) No	
		1924/2006.	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	"Immune system"	The references provided	
		addressed several outcomes,	
		and it was not possible to	
		establish which effect is the	
		target for the claim. Given the	
		multiple roles of the immune	
		system, the specific aspect of	
		immune function that is the	
		subject of the claim needs to be	
		specified, but has not been	
		indicated in the information	
		provided.The Panel concludes	
		that a cause and effect	
		relationship has not been	
		established	
	Maintenance of joints, tendons,	On the basis of the data	
	and connective tissue,	available, the Panel concludes	
	maintenance of visual acuity,	that a cause and effect	
	protection of DNA, proteins and	relationship has not been	
	lipids from oxidative damage,	established between the	
	maintenance of blood cholesterol	consumption of astaxanthin and	
	concentrations and maintenance	the maintenance of normal	
	of low plasma concentrations of	joints, tendons or connective	
	C-reactive protein (CRP)	tissue, protection of DNA,	
		proteins or lipids from oxidative	
		damage, maintenance of	
		normal visual acuity, and	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		maintenance of normal blood	
		cholesterol concentrations or	
		the maintenance of low plasma	
		concentrations of CRP.	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
Pomegranate/pomegranate juice	Maintenance of normal blood	No references were provided	Topical antifungal activity
	cholesterol concentrations	from which conclusions could	
		be drawn for the scientific	Decreases serum angiotensin
		substantiation of the claimed	converting enzyme (ACE) activity
		effect.	and lowered blood pressure in
			elderly hypertensive patients
		The Panel concludes that a	
		cause and effect relationship	May have antibacterial activity
		has not been established	and may be useful in dental
	Maintenance of normal erectile	Four references were provided	conditions
	function	in relation to this claim,	
		including three references from	May have antihypertensive
		which no conclusions could be	effects
		drawn for the scientific	
		substantiation of the claimed	
		effect. The fourth reference	
		reported on a randomised,	
		double-blind, placebo-	
		controlled, crossover	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		intervention study in male	
		subjects with erectile	
		dysfunction. The Panel notes	
		that pomegranate juice has not	
		been sufficiently characterised	
		with respect to polyphenols	
		(i.e., punicalagin and/or ellagic	
		acid content not specified) and	
		that there was no significant	
		effect of pomegranate juice on	
		erectile function measured	
		using either the Global	
		Assessment Questionnaires	
		(GAQ) score or the International	
		Index of Erectile Function (IIEF).	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	
	Protection of lipids from oxidative	No references were provided	
	damage	from which conclusions could	
	damage	be drawn for the scientific	
		substantiation of the claimed	
		effect.	
		The Panel concludes that a	
		cause and effect relationship	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		has not been established	
	"Antioxidant and anti-aging	The Panel considers that no	
	properties"	evidence has been provided to	
		establish that having antioxidant properties is a	
		beneficial physiological effect.	
		In addition, no definition has	
		been provided of having "anti-	
		aging properties" in relation to the antioxidant properties of	
		foods.	
	Increase in appetite after	No references were provided	
	unintentional weight loss leading	from which conclusions could	
	to an increase in energy intake	be drawn for the scientific substantiation of the claimed	
		effect.	
		The Panel concludes that a	
		cause and effect relationship has not been established	

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	Maintenance of normal blood glucose concentrations	No references were provided from which conclusions could be drawn for the scientific substantiation of the claimed effect.	
		The Panel concludes that a cause and effect relationship has not been established	
Gamma-linoleic acid (GLA)	Reduction of inflammation	The Panel notes that the provided review of gammalinolenic acid and the mechanistic in vitro study provide little evidence for the claimed effect of gammalinolenic acid on reduction of inflammation. The Panel concludes that a cause and effect relationship has not been established	May be a viable treatment for diabetic neuropathy GLA may aid in treating acute respiratory distress syndrome (ARDS) and may offer benefits in terms of blood pressure reduction GLA may act as a cytotoxic agent or at least as an adjunct agent to a chemotherapy regimen May enhance the effects of calcium supplementation in elderly patients with senile osteoporosis

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
			Potential for benefit of edema
			(swelling) in pregnancy and in
			terms of premenstrual syndrome
			symptoms
			May be associated with
			improvement of skin conditions
			with pruritus (severe itching)
			Significant therapeutic
			improvements in rheumatoid
			arthritis symptoms
			GLA may be a more tolerable
			alternative to the standard pain-
			reduction therapies, such as COX
			/ COX2 inhibitors, and NSAIDs
			and their adverse events

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
Fructo-oligosaccharides (FOS) (prebiotic)	Decreasing potentially pathogenic gastro-intestinal microorganisms	No human studies from which conclusions could be drawn for the scientific substantiation of the claim were provided. The Panel concludes that a cause and effect relationship has not been established	Alles, MS,et al. Fate of fructooligosaccharides in the human intestine. Br.J.Nutr. 1996;76(2):211-221.Bomba, A, et al. Improvement of the probiotic effect of micro-organisms by their combination with maltodextrins, fructooligosaccharides and polyunsaturated fatty acids. Br.J.Nutr. 2002;88 Suppl 1:S95-S99. View Bornet, FR, Brouns F. Immune-stimulating and gut health-promoting properties of short-chain fructooligosaccharides. Nutr.Rev. 2002;60(10 Pt 1):326-334. View AbstractBouhnik Y, et al. Effects of fructo-oligosaccharides ingestion on fecal bifidobacteria and selected metabolic indexes
	Changes in short chain fatty acid (SCFA) production and pH in the gastro-intestinal tract	The Panel considers that changes in SCFA production and pH in the bowel are not per se beneficial physiological effects, but need to be linked to a beneficial physiological or	of colon carcinogenesis in healthy humans. Nutr.Cancer 1996;26(1):21-29. View AbstractBriet F, et al. Symptomatic response to varying levels of fructo-oligosaccharides

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		clinical outcome. No evidence	consumed occasionally or
		has been provided to indicate	regularly. Eur.J.Clin.Nutr.
		the context in which the	1995;49(7):501-507.Cummings
		claimed effect could be	JH, et al. A study of fructo
		considered as a beneficial	oligosaccharides in the
		physiological effect.	prevention of travellers'
			diarrhoea. Aliment. Pharmacol.
		The Panel concludes that a	Ther. 2001;15(8):1139-
		cause and effect relationship	1145.Giacco, R., Clemente, G.,
		has not been established	Luongo, D., Lasorella, G., Fiume,
	Changes in bowel function	In weighing the evidence, the	I., Brouns, F., Bornet, F., Patti, L.,
		Panel took into account that the	Cipriano, P., Rivellese, A. A., and
		only relevant human study	Riccardi, G. Effects of short-chain
		showed no effect of FOS on	fructo-oligosaccharides on
		bowel function	glucose and lipid metabolism in
			mild hypercholesterolaemic
		The Panel concludes that a	individuals. Clin.Nutr. 2004;
		cause and effect relationship	23(3):331-340.Hartemink, R., Van
		has not been established	Laere, K. M., and Rombouts, F.
	Reduction of gastro-intestinal	No references were provided	M. Growth of enterobacteria on
	discomfort	from which conclusions could	fructo-oligosaccharides.
		be drawn for the scientific	J.Appl.Microbiol. 1997;
		substantiation of the claimed	83(3):367-374.Hidaka, H. and
		effect	Hirayama, M. Useful
			characteristics and commercial
		The Panel concludes that a	applications of fructo-
		cause and effect relationship	oligosaccharides.

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
		has not been established	Biochem.Soc.Trans. 1991;
			19(3):561-565. La Rosa M, et al.
			[Prevention of antibiotic-
			associated diarrhea with
	Increase in calcium and/or	In weighing the evidence, the	Lactobacillus sporogens and
	magnesium absorption leading to	Panel took into account that	fructo-oligosaccharides in
	an increase in magnesium and/or	only two chronic studies in a	children. A multicentric double-
	calcium retention	low number of human subjects	blind vs placebo study]. Minerva
		were provided and that these	Pediatr. 2003; 55(5):447-
		studies, though suggesting an	452.Mitsuoka T, et al. Effect of
		effect on magnesium (but not	fructo-oligosaccharides on
		calcium) absorption, do not	intestinal microflora. Nahrung
		show an effect of FOS from	1987; 31(5-6): 427-
		sucrose on mineral retention	436.Schaafsma, G., Meuling, W.
			J., van Dokkum, W., and Bouley,
		The Panel concludes that a	C. Effects of a milk product,
		cause and effect relationship	fermented by Lactobacillus
		has not been established	acidophilus and with fructo-

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
	Maintenance of normal blood LDL-cholesterol concentrations and maintenance of normal (fasting) blood concentrations of triglycerides	In weighing the evidence, the Panel took into account that six out of the seven small intervention studies from which conclusions could be drawn for the scientific substantiation of the claim did not observe a significant effect of FOS from sucrose on blood cholesterol concentrationsThe Panel concludes that a cause and effect relationship has not been established	oligosaccharides added, on blood lipids in male volunteers. Eur.J.Clin.Nutr. 1998;52(6):436-440.Tahiri, et al. Five-week intake of short-chain fructo-oligosaccharides increases intestinal absorption and status of magnesium in postmenopausal women. J.Bone Miner.Res. 2001; 16(11): 2152-2160.Tuohy KM, et al. The prebiotic effects of biscuits containing partially hydrolysed guar gum and fructo-oligosaccharidesa human volunteer study. Br.J.Nutr. 2001; 86(3): 341-348.

Disallowed food/food ingredient	Claims(s) sought	Reasons for refusal	Known health benefits*
Medium-chain triglycerides (MCTs)	Reduction in body weight	The Panel took into account	
		that the results from the human	
		intervention studies provided	
		are inconsistent with respect to	
		the effects of medium-chain	
		triglycerides on body weight	
		loss, and that the evidence in	
		support of a mechanism by	
		which medium-chain	
		triglycerides could exert the	
		claimed effect is weak and not	
		convincing.	
		The Panel concludes that a	
		cause and effect relationship	
		has not been established	