

## SCIENTIFIC OPINION

### **Scientific Opinion on the substantiation of health claims related to *Ammi visnaga* (L.) Lam. and relief in case of irritation in the upper respiratory tract (ID 2211) pursuant to Article 13(1) of Regulation (EC) No 1924/2006<sup>1</sup>**

#### **EFSA Panel on Dietetic Products, Nutrition and Allergies (NDA)<sup>2</sup>**

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#### **SUMMARY**

Following a request from the European Commission, the Panel on Dietetic Products, Nutrition and Allergies was asked to provide a scientific opinion on a list of health claims pursuant to Article 13 of Regulation 1924/2006. This opinion addresses the scientific substantiation of health claims in relation to *Ammi visnaga* (L.) Lam. and relief in case of irritation in the upper respiratory tract. The scientific substantiation is based on the information provided by the Member States in the consolidated list of Article 13 health claims and references that EFSA has received from Member States or directly from stakeholders.

The food constituent that is the subject of the health claim is *Ammi visnaga* (L.) Lam.. The Panel considers that *Ammi visnaga* (L.) Lam. has been sufficiently characterised with the following conditions of use: an amount equivalent to 20 mg khellin/day.

The claimed effect “respiratory health” is not sufficiently defined but from the proposed wordings the Panel assumes that the claimed effect relates to relief in case of tickle in the upper respiratory tract. The Panel considers that relief in case of irritation in the upper respiratory tract might be beneficial to human health.

The Panel notes that the reference cited did not 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 *Ammi visnaga* (L.) Lam. and relief in case of irritation in the upper respiratory tract.

#### **KEY WORDS**

*Ammi visnaga* (L.) Lam., irritation, upper respiratory tract, health claims.

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## **BACKGROUND AS PROVIDED BY THE EUROPEAN COMMISSION**

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## **TERMS OF REFERENCE AS PROVIDED BY THE EUROPEAN COMMISSION**

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## **EFSA DISCLAIMER**

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The members of the Working Group on Claims: Jean-Louis Bresson, Albert Flynn, Marina Heinonen, Hannu Korhonen, Martinus Løvik, Ambroise Martin, Hildegard Przyrembel, Seppo Salminen, Sean (J.J.) Strain, Inge Tetens, Henk van den Berg, Hendrik van Loveren and Hans Verhagen.

The members of the Claims/Sub-Working Group Characterisation of Botanicals: Robert Anton, Luc Delmulle, Kirsten Pilegaard, Mauro Serafini and Hans Verhagen.

## INFORMATION AS PROVIDED IN THE CONSOLIDATED LIST

The consolidated list of health claims pursuant to Article 13 of Regulation 1924/2006<sup>3</sup> submitted by Member States contains main entry claims with corresponding conditions of use and literature from similar health claims. The information provided in the consolidated list for the health claims which are the subject of this opinion is given in Table 1.

Table 1. Main entry health claims related to *Ammi visnaga* (L.) Lam., including conditions of use from similar claims, as proposed in the Consolidated List.

ID	Food or Food constituent	Health Relationship	Proposed wording
2211	<i>Ammi visnaga</i>	Respiratory health	<ul style="list-style-type: none"> <li>- Soothing for throat;</li> <li>- supportive and soothing in case of tickle in the throat;</li> <li>- to use in case of temporary croakiness;</li> <li>- mild and softening for the throat;</li> <li>- for an appropriate and easy respiration.</li> </ul>
	<b>Conditions of use</b> <ul style="list-style-type: none"> <li>- The equivalent of 20 mg khellin</li> </ul>		

## ASSESSMENT

### 1. Characterisation of the food/constituent

The food constituent that is the subject of the health claim is *Ammi visnaga* (L.) Lam.. The characterisation of *Ammi visnaga* (L.) Lam. is performed by comparing data provided as conditions of use to information extracted from standard reference textbooks (see Table 2 below and Appendix C for list of standard reference textbooks used for the characterisation).

<sup>3</sup> Regulation (EC) No 1924/2006 of the European Parliament and of the Council of 20 December 2006 on nutrition and health claims made on foods. OJ L 404, 30.12.2006, p. 9–25.

Table 2. Information on *Ammi visnaga* (L.) Lam. from standard reference textbooks and the information provided as conditions of use.

ID	Scientific name	Part used	Nature of the preparation	Conditions of use
Text-book	<i>Ammi visnaga</i> (L.) Lam.  Apiaceae	Fruit	Extract; infusion	Dry fruit contains not less than 1% gamma-pyrones calculated as khellin.  Dried fruit: 0.05-0.15 g/day or equivalent preparations.  Standardised dry extract: 140 mg/day (10.5% of gamma-pyrones calculated as khellin); solvent: methanol-water 70:30 w/w; plant-extract ratio: 6.2-10:1.  Infusion: 0.5 g/150 mL.  <i>Notes: Fruit (therapeutic dose) - 0.4% of khellin and 1% of khellinin. Oral intakes: 50-100 mg khellin, 3 times/day; 20-60 mg khellinin 3 times/day.</i>
2211	<i>Ammi visnaga</i> (L.) Lam.	Not specified  <i>Note: It is assumed to be "fruit", owing to the presence of khellin.</i>	Not specified.  <i>Note: It is assumed to be a preparation standardised in khellin.</i>	Preparation: an amount equivalent to 20 mg khellin.  <i>Note: it is assumed to be the daily amount.</i>

The part used is not specified, but it is assumed to be the fruit because the presence of khellin is required. The nature of the preparation is not specified, but it is also assumed that it is an extract standardised in khellin. The daily amount is not specified, however it is assumed to be the daily amount.

The Panel concludes that the food constituent, *Ammi visnaga* (L.) Lam., which is the subject of the health claim, has been sufficiently characterised with the following conditions of use: an amount equivalent to 20 mg khellin/day.

## 2. Relevance of the claimed effect to human health

The claimed effect is "respiratory health". The Panel assumes that the target population is the general population.

"Respiratory health" is not sufficiently defined. From the proposed wordings the Panel assumes that the claimed effect relates to relief in case of tickle in the upper respiratory tract.

The Panel considers that relief in case of irritation in the upper respiratory tract might be beneficial to human health.

## 3. Scientific substantiation of the claimed effect

One reference was cited to substantiate the claimed effect. The reference provided was from the Natural Comprehensive Database stating that khellin is used for respiratory conditions, acts as a vasodilator and has bronchodilatory activity. The Panel notes that the reference cited did not 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 *Ammi visnaga* (L.) Lam. and relief in case of irritation in the upper respiratory tract.

## CONCLUSIONS

On the basis of the data presented, the Panel concludes that:

- The food constituent, *Ammi visnaga* (L.) Lam., which is the subject of the health claim, is sufficiently characterised with the following conditions of use: an amount equivalent to 20 mg khellin/day.
- The claimed effect is “respiratory health”. The target population is assumed to be the general population. Relief in case of irritation in the upper respiratory tract might be beneficial to human health.
- A cause and effect relationship has not been established between the consumption of *Ammi visnaga* (L.) Lam. and relief in case of irritation in the upper respiratory tract.

## DOCUMENTATION PROVIDED TO EFSA

Health claims pursuant to Article 13 of Regulation (EC) No 1924/2006 (No: EFSA-Q-2008-2944). The scientific substantiation is based on the information provided by the Member States in the consolidated list of Article 13 health claims and references that EFSA has received from Member States or directly from stakeholders.

The full list of supporting references as provided to EFSA is available on: <http://www.efsa.europa.eu/panels/nda/claims/article13.htm>

## **APPENDICES**

### **APPENDIX A**

#### **BACKGROUND AND TERMS OF REFERENCE AS PROVIDED BY THE EUROPEAN COMMISSION**

The Regulation 1924/2006 on nutrition and health claims made on foods<sup>4</sup> (hereinafter "the Regulation") entered into force on 19<sup>th</sup> January 2007.

Article 13 of the Regulation foresees that the Commission shall adopt a Community list of permitted health claims other than those referring to the reduction of disease risk and to children's development and health. This Community list shall be adopted through the Regulatory Committee procedure and following consultation of the European Food Safety Authority (EFSA).

Health claims are defined as "any claim that states, suggests or implies that a relationship exists between a food category, a food or one of its constituents and health".

In accordance with Article 13 (1) health claims other than those referring to the reduction of disease risk and to children's development and health are health claims describing or referring to:

- a) the role of a nutrient or other substance in growth, development and the functions of the body; or
- b) psychological and behavioural functions; or
- c) without prejudice to Directive 96/8/EC, slimming or weight-control or a reduction in the sense of hunger or an increase in the sense of satiety or to the reduction of the available energy from the diet.

To be included in the Community list of permitted health claims, the claims shall be:

- (i) based on generally accepted scientific evidence; and
- (ii) well understood by the average consumer.

Member States provided the Commission with lists of claims as referred to in Article 13(1) by 31 January 2008 accompanied by the conditions applying to them and by references to the relevant scientific justification. These lists have been consolidated into the list which forms the basis for the EFSA consultation in accordance with Article 13 (3).

#### **ISSUES THAT NEED TO BE CONSIDERED**

##### **IMPORTANCE AND PERTINENCE OF THE FOOD<sup>5</sup>**

Foods are commonly involved in many different functions<sup>6</sup> of the body, and for one single food many health claims may therefore be scientifically true. Therefore, the relative importance of food e.g. nutrients in relation to other nutrients for the expressed beneficial effect should be considered: for functions affected by a large number of dietary factors it should be considered whether a reference to a single food is scientifically pertinent.

It should also be considered if the information on the characteristics of the food contains aspects pertinent to the beneficial effect.

##### **SUBSTANTIATION OF CLAIMS BY GENERALLY ACCEPTABLE SCIENTIFIC EVIDENCE**

Scientific substantiation is the main aspect to be taken into account to authorise health claims. Claims should be scientifically substantiated by taking into account the totality of the available scientific data, and by weighing the evidence, and shall demonstrate the extent to which:

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<sup>4</sup> OJ L12, 18/01/2007

<sup>5</sup> The term 'food' when used in this Terms of Reference refers to a food constituent, the food or the food category.

<sup>6</sup> The term 'function' when used in this Terms of Reference refers to health claims in Article 13(1)(a), (b) and (c).

- (a) the claimed effect of the food is beneficial for human health,
- (b) a cause and effect relationship is established between consumption of the food and the claimed effect in humans (such as: the strength, consistency, specificity, dose-response, and biological plausibility of the relationship),
- (c) the quantity of the food and pattern of consumption required to obtain the claimed effect could reasonably be achieved as part of a balanced diet,
- (d) the specific study group(s) in which the evidence was obtained is representative of the target population for which the claim is intended.

EFSA has mentioned in its scientific and technical guidance for the preparation and presentation of the application for authorisation of health claims consistent criteria for the potential sources of scientific data. Such sources may not be available for all health claims. Nevertheless it will be relevant and important that EFSA comments on the availability and quality of such data in order to allow the regulator to judge and make a risk management decision about the acceptability of health claims included in the submitted list.

The scientific evidence about the role of a food on a nutritional or physiological function is not enough to justify the claim. The beneficial effect of the dietary intake has also to be demonstrated. Moreover, the beneficial effect should be significant i.e. satisfactorily demonstrate to beneficially affect identified functions in the body in a way which is relevant to health. Although an appreciation of the beneficial effect in relation to the nutritional status of the European population may be of interest, the presence or absence of the actual need for a nutrient or other substance with nutritional or physiological effect for that population should not, however, condition such considerations.

Different types of effects can be claimed. Claims referring to the maintenance of a function may be distinct from claims referring to the improvement of a function. EFSA may wish to comment whether such different claims comply with the criteria laid down in the Regulation.

#### **WORDING OF HEALTH CLAIMS**

Scientific substantiation of health claims is the main aspect on which EFSA's opinion is requested. However, the wording of health claims should also be commented by EFSA in its opinion.

There is potentially a plethora of expressions that may be used to convey the relationship between the food and the function. This may be due to commercial practices, consumer perception and linguistic or cultural differences across the EU. Nevertheless, the wording used to make health claims should be truthful, clear, reliable and useful to the consumer in choosing a healthy diet.

In addition to fulfilling the general principles and conditions of the Regulation laid down in Article 3 and 5, Article 13(1)(a) stipulates that health claims shall describe or refer to "the role of a nutrient or other substance in growth, development and the functions of the body". Therefore, the requirement to describe or refer to the 'role' of a nutrient or substance in growth, development and the functions of the body should be carefully considered.

The specificity of the wording is very important. Health claims such as "Substance X supports the function of the joints" may not sufficiently do so, whereas a claim such as "Substance X helps maintain the flexibility of the joints" would. In the first example of a claim it is unclear which of the various functions of the joints is described or referred to contrary to the latter example which specifies this by using the word "flexibility".

The clarity of the wording is very important. The guiding principle should be that the description or reference to the role of the nutrient or other substance shall be clear and unambiguous and therefore be specified to the extent possible i.e. descriptive words/ terms which can have multiple meanings should be avoided. To this end, wordings like "strengthens your natural defences" or "contain antioxidants" should be considered as well as "may" or "might" as opposed to words like "contributes", "aids" or "helps".



In addition, for functions affected by a large number of dietary factors it should be considered whether wordings such as "indispensable", "necessary", "essential" and "important" reflects the strength of the scientific evidence.

Similar alternative wordings as mentioned above are used for claims relating to different relationships between the various foods and health. It is not the intention of the regulator to adopt a detailed and rigid list of claims where all possible wordings for the different claims are approved. Therefore, it is not required that EFSA comments on each individual wording for each claim unless the wording is strictly pertinent to a specific claim. It would be appreciated though that EFSA may consider and comment generally on such elements relating to wording to ensure the compliance with the criteria laid down in the Regulation.

In doing so the explanation provided for in recital 16 of the Regulation on the notion of the average consumer should be recalled. In addition, such assessment should take into account the particular perspective and/or knowledge in the target group of the claim, if such is indicated or implied.

## **TERMS OF REFERENCE**

### **HEALTH CLAIMS OTHER THAN THOSE REFERRING TO THE REDUCTION OF DISEASE RISK AND TO CHILDREN'S DEVELOPMENT AND HEALTH**

EFSA should in particular consider, and provide advice on the following aspects:

- Whether adequate information is provided on the characteristics of the food pertinent to the beneficial effect.
- Whether the beneficial effect of the food on the function is substantiated by generally accepted scientific evidence by taking into account the totality of the available scientific data, and by weighing the evidence. In this context EFSA is invited to comment on the nature and quality of the totality of the evidence provided according to consistent criteria.
- The specific importance of the food for the claimed effect. For functions affected by a large number of dietary factors whether a reference to a single food is scientifically pertinent.

In addition, EFSA should consider the claimed effect on the function, and provide advice on the extent to which:

- the claimed effect of the food in the identified function is beneficial.
- a cause and effect relationship has been established between consumption of the food and the claimed effect in humans and whether the magnitude of the effect is related to the quantity consumed.
- where appropriate, the effect on the function is significant in relation to the quantity of the food proposed to be consumed and if this quantity could reasonably be consumed as part of a balanced diet.
- the specific study group(s) in which the evidence was obtained is representative of the target population for which the claim is intended.
- the wordings used to express the claimed effect reflect the scientific evidence and complies with the criteria laid down in the Regulation.

When considering these elements EFSA should also provide advice, when appropriate:

- on the appropriate application of Article 10 (2) (c) and (d) in the Regulation, which provides for additional labelling requirements addressed to persons who should avoid using the food; and/or warnings for products that are likely to present a health risk if consumed to excess.

## **APPENDIX B**

### **EFSA DISCLAIMER**

The present opinion does not constitute, and cannot be construed as, an authorisation to the marketing of the food/food constituent, a positive assessment of its safety, nor a decision on whether the food/food constituent is, or is not, classified as foodstuffs. It should be noted that such an assessment is not foreseen in the framework of Regulation (EC) No 1924/2006.

It should also be highlighted that the scope, the proposed wordings of the claims and the conditions of use as proposed in the Consolidated List may be subject to changes, pending the outcome of the authorisation procedure foreseen in Article 13(3) of Regulation (EC) No 1924/2006.

## APPENDIX C

### FULL LIST OF STANDARD REFERENCE TEXTBOOKS USED FOR CHARACTERISATION PURPOSES

- Bisset NG, Wichtl M (Eds), 2001. Herbal drugs and phytopharmaceuticals. CRC Press/medpharm GmbH Scientific Publishers, Stuttgart.
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