

19 March2025 EMA/HMPC/329435/2024 Committee on Herbal Medicinal Products (HMPC)

# European Union herbal monograph on *Allium sativum* L., bulbus

Draft - Revision 1

Initial assessment	
Discussion in Working Party on European Union monographs and	January 2013
European Union list (MLWP)	March 2013
	July 2013
	March 2014
	July 2015
	February 2016
	April 2016
Adopted by Committee on Herbal Medicinal Products (HMPC) for	12 July 2016
release for consultation	12 July 2010
End of consultation (deadline for comments)	31 October 2016
Adoption by HMPC	
Monograph (EMA/HMPC/7685/2013)	
Assessment Report (EMA/HMPC/7686/2013)	
List of References (EMA/HMPC/7687/2013)	18 July 2017
Overview of Comments received during the public consultation	
(EMA/HMPC/48689/2017)	
HMPC Opinion (EMA/HMPC/171136/2017)	
First revision	
Discussion in HMPC	July 2024
	November 2024
	January 2025
	March 2025
Adopted by HMPC for release for consultation	19 March 2025
Start of public consultation	15 April 2025
End of consultation (deadline for comments). Comments should be provided using this template to hmpc.secretariat@ema.europa.eu	15 July 2025

Keywords	Committee on Herbal Medicinal Products; HMPC; European Union herbal
	monographs; herbal medicinal products; traditional herbal medicinal products;
	traditional use; Allium sativum L., bulbus; Allii sativi bulbus; garlic



BG (bălgarski): Чесън, луковица CS (čeština): česneková cibule

DA (dansk): Hvidløg

DE (Deutsch): Knoblauchzwiebel EL (elliniká): βολβός σκορ(ὁ)δου

EN (English): garlic

ES (espanol): ajo, bulbo de ET (eesti keel): küüslauk FI (suomi): valkosipuli, sipuli FR (français): ail (bulbe d')

HR (hrvatski): češnjakova lukovica

HU (magyar): fokhagyma IT (italiano): Aglio bulbo LT (lietuvių kalba): Česnakai

LV (latviešu valoda): Ķiploka sīpols

MT (Malti): basla tat-tewm NL (Nederlands): Knoflook

PL (polski): Czosnek

PT (português): alho, bolbo de RO (română): bulb de usturoi

SK (slovenčina): cibuľa cesnaku (cesnak)

SL (slovenščina): čebulica česna

SV (svenska): vitlök, lök

IS (íslenska):

NO (norsk): hvitløk

## European Union herbal monograph on *Allium sativum* L., bulbus

### 1. Name of the medicinal product

To be specified for the individual finished product.

#### 2. Qualitative and quantitative composition<sup>1, 2</sup>

Well-established use	Traditional use
	With regard to the registration application of Article 16d(1) of Directive 2001/83/EC
	Allium sativum L., bulbus (garlic)
	i) Herbal substance
	Not applicable.
	ii) Herbal preparations
	a) Powdered herbal substance
	b) Liquid extract from fresh bulb (DER 2-3:1), extraction solvent rapeseed oil, refined
	c) Dry extract (DER 5:1), extraction solvent ethanol 34% V/V

#### 3. Pharmaceutical form

Well-established use	Traditional use
	Herbal preparations in solid dosage forms for oral use.
	The pharmaceutical form should be described by the European Pharmacopoeia full standard term.

### 4. Clinical particulars

#### 4.1. Therapeutic indications

Well-established use	Traditional use
	Indication 1)
	Traditional herbal medicinal product used as an adjuvant for the prevention of atherosclerosis.

 $<sup>^{1}</sup>$  The declaration of the active substance(s) for an individual finished product should be in accordance with relevant herbal quality guidance.

<sup>&</sup>lt;sup>2</sup> The material complies with the Ph. Eur. monograph (ref.: 01/2019:1216)

Well-established use	Traditional use
	Indication 2)
	Traditional herbal medicinal product used for the relief of the symptoms of common cold.
	The product is a traditional herbal medicinal product for use in the specified indications exclusively based upon long-standing use.

## 4.2. Posology and method of administration

Well-established use	Traditional use
	Posology
	Indication 1)
	Adults and elderly
	a) Powdered herbal substance
	Single dose: 100 mg to 750 mg, 2 to 5 times daily
	Daily dose: 300-1800 mg
	b) Liquid extract
	Single dose: 110-220 mg, 4 times daily
	Daily dose: 440 - 880 mg
	The use in children and adolescents under 18 years of age is not recommended (see section 4.4 'Special warnings and precautions for use').
	Indication 2)
	Adolescents, adults and elderly
	a) Powdered herbal substance
	Single dose: 600 mg, 3-4 times daily
	Daily dose: 1800-2400 mg
	c) Dry extract:
	Single dose: 100-200 mg 1-2 times daily
	Daily dose: 100-400 mg
	The use in children under 12 years of age is not recommended (see section 4.4 'Special warnings and precautions for use').
	Duration of use
	Indication 1)

Well-established use	Traditional use
	No restriction to the duration of use.
	Indication 2)
	If the symptoms persist longer than one week during the use of the medicinal product, a doctor or a qualified health care practitioner should be consulted.
	Method of administration
	Oral use.

#### 4.3. Contraindications

Well-established use	Traditional use
	Hypersensitivity to the active substance.
	Patients under saquinavir/ritonavir therapy (see also section 4.5 Interactions).

#### 4.4. Special warnings and precautions for use

Well-established use	Traditional use
	Garlic consumption should be avoided 7 days before surgery because of the post-operative bleeding risk.
	Indication 1)
	The use in adolescents under 18 years of age has not been established due to lack of data.
	Indication 2)
	The use in children under 12 years of age has not been established due to lack of adequate data.

## 4.5. Interactions with other medicinal products and other forms of interaction

Well-established use	Traditional use
	Garlic preparations should be used with caution in patients taking oral anticoagulation therapy and/or anti-platelet therapy because they may increase bleeding times.
	Concomitant use with saquinavir/ritonavir is contraindicated because of the risks of decrease in plasma concentration, loss of virological

Well-established use	Traditional use
	response and possible resistance to one or more components of the antiretroviral regime (see also section 4.3 Contraindications).

#### 4.6. Fertility, pregnancy and lactation

Well-established use	Traditional use
	Safety during pregnancy and lactation has not been established. In the absence of sufficient data, the use during pregnancy and lactation is not recommended.  Studies in animals have shown effect on fertility
	(see section 5.3 'Preclinical safety data').

#### 4.7. Effects on ability to drive and use machines

Well-established use	Traditional use
	No studies on the effect on the ability to drive and use machines have been performed.

#### 4.8. Undesirable effects

Well-established use	Traditional use
	Metabolism and nutrition disorders: decreased appetite. Frequency not known.
	Nervous system disorders: headache, dizziness. Frequency not known.
	Eye disorders: conjunctivitis. Frequency not known.
	Vascular disorders: haemorrhage. Frequency not known.
	Respiratory, thoracic and mediastinal disorders: rhinitis, bronchospasm. Frequency not known.
	Gastrointestinal disorders: breath odour, abdominal pain, abdominal distension, flatulence. Frequency not known.
	Skin and subcutaneous tissue disorders: hyperhidrosis, abnormal skin odour, contact dermatitis. Frequency not known.
	Description of selected adverse reactions: allergic reactions such as contact dermatitis,

Well-established use	Traditional use
	conjunctivitis, rhinitis, or bronchospasms, sometimes severe have been reported.
	If other adverse reactions not mentioned above occur, a doctor or a qualified health care practitioner should be consulted.

#### 4.9. Overdose

Well-established use	Traditional use
	No case of overdose has been reported.

## 5. Pharmacological properties

#### 5.1. Pharmacodynamic properties

Well-established use	Traditional use
	Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC.

#### 5.2. Pharmacokinetic properties

Well-established use	Traditional use
	Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC.

#### 5.3. Preclinical safety data

Well-established use	Traditional use
	Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC, unless necessary for the safe use of the product.
	Adequate tests on reproductive toxicity and genotoxicity have not been performed.
	Tests on carcinogenicity have not been performed.
	Testicular toxicity (e.g. spermatogenesis impairment) was reported in rats treated for 30 days with crude garlic and in rats treated for 70
	days with 50 mg of garlic powder. A decrease in testosterone occurs concomitantly; a NOAEL was not determined for the garlic powder. These
	effects on male rat fertility were observed at

Well-established use	Traditional use
	approximately twice the maximal human daily dose.

## 6. Pharmaceutical particulars

Well-established use	Traditional use
	Not applicable.

## 7. Date of compilation/last revision

19 March 2025