

6 June 2011 EMA/HMPC/585558/2007 *Corr.*¹ Committee on Herbal Medicinal Products (HMPC)

Community herbal monograph on Valeriana officinalis L.,

This document was valid from 6 May 2010 until September 2019. It is now superseded by a <u>new version</u> adopted by the HMPC on 25 September 2019 and published on the EMA website.

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	March 2009
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established medicinal use; traditional use; Valeriana officinalis L.; Humulus
lupulus L.; Valerianae radix; Lupuli flos; valerian root and hop strobiles

BG (bălgarski): Валериана, корен/Хмел, лист	LV (latviešu valoda): Baldriāna saknes/Apiņu ziedi
CS (čeština): Kozlíkový kořen/Chmelová šištice	MT (malti): Għeruq Tal-valerjana u fjuri tal-ħops
DA (dansk): Baldrianrod/Humlekopper	NL (nederlands): Valeriaanwortel/Hopbellen
DE (Deutsch): Baldrianwurzel/Hopfenzapfen	PL (polski): Korzeń kozłka/Szyszka chmielu
EL (elliniká): Ρίζα Βαλεριανής και Άνθος Λυκίσκου	PT (português): Valeriana, raiz/Lúpulo, cone
EN (English): Valerian Root/Hop Strobile	RO (română): Rădăcină de valeriană și conuri de hamei
ES (espanol): Valeriana, raíz de/Lúpulo, flor de	SK (slovenčina): Valeriánový koreň/Chmeľový kvet
ET (eesti keel): Palderjanijuur/Humalakäbi	SL (slovenščina): Korenina zdravilne špajke/Cvet
FI (suomi):	navadnega hmelja
FR (français): Valériane (racine de)/Houblon (cône de)	SV (svenska): Vänderot/Humlekotte
HU (magyar): Macskagyökér és Komlótoboz	IS (íslenska):
IT (italiano): Valeriana radice/Luppolo fiore	NO (norsk): Valerianarot/Humle
LT (lietuvių kalba): Valerijonų šaknys ir apynių spurgai	

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¹ Changes introduced in June 2011 in substance names in EU languages and section 5.3.

Community herbal monograph on Valeriana officinalis L., radix and Humulus Iupulus L., flos

1. Name of the medicinal product

To be specified for the individual finished product.

2. Qualitative and quantitative composition^{2,3}

Well-established use	Traditional use
With regard to the marketing authorisation application of Article 10a of Directive 2001/83/EC as amended	With regard to the registration application of Article 16d(1) of Directive 2001/83/EC as amended
Fixed combinations of <i>Valeriana officinalis</i> L., radix (valerian root) and <i>Humulus lupulus</i> L., flos (hop strobiles)	Fixed combinations of <i>Valeriana officinalis</i> L., radix (valerian root) and <i>Humulus lupulus</i> L., flos (hop strobiles)
i) Herbal substances Not applicable	i) Herbal substances Not applicable
 ii) Herbal preparations used in fixed combinations of a) Dry extracts of valerian root (DER 4-8:1, methanol 45-51% m/m) and hop strobiles (DER 3-10:1, methanol 40-51% m/m) b) Dry extracts of valerian root (DER 4-7:1, ethanol 70% v/v) and hop strobiles (DER 4-8:1, methanol 40% v/v) 	 ii) Herbal preparations used in fixed combinations of Liquid extract (DER 1:6.3) from a mixture of valerian root-hop strobiles (1:1), extraction solvent ethanol 40% v/v Liquid extract from a mixture (1:1) of valerian root tincture (DER 1:10), extraction solvent ethanol 53% m/m and hop strobiles liquid extract (DER 1:2.2), extraction solvent ethanol 53% m/m Dry extracts a) Dry extracts of valerian root (DER 4-6:1), extraction solvent water and hop strobiles (DER 3-6:1), extraction solvent water
	 b) Dry extracts of valerian root (DER 5-7:1), extraction solvent methanol 45% m/m and hop strobiles (DER 5-7:1), extraction solvent water
	c) Dry extracts of valerian root (DER 4-5:1), extraction solvent ethanol 60% v/v and hop strobiles (DER 5-9:1), extraction solvent water

² The material complies with the Ph. Eur. monograph (ref.: 01/2008:0453 and 01/2005:1222).

³ The declaration of the active substance(s) for an individual finished product should be in accordance with relevant herbal quality guidance.

d) Dry extracts of valerian root (DER 4-7:1), extraction solvent methanol 45% v/v and hop strobiles (DER 4-8:1), extraction solvent ethanol 40% v/v
e) Dry extracts of valerian root (DER 3-7:1), extraction solvent ethanol 70% v/v and hop strobiles (DER 4-8:1), extraction solvent ethanol 40% v/v
 f) Dry extracts of valerian root (DER 6-7:1), extraction solvent ethanol 70% v/v and hop strobiles (DER 11-14:1), extraction solvent ethanol 96% v/v
g) Dry extracts of valerian root (DER 5-8:1), extraction solvent ethanol 85% v/v and hop strobiles (DER 9-11:1), extraction solvent ethanol 90% v/v

3. Pharmaceutical form

3. Pharmaceutical form	
Well-established use	Traditional use
Herbal preparation in solid dosage forms for oral use.	Herbal preparation in solid or liquid dosage forms for oral use.
The pharmaceutical form should be described by the European Pharmacopoeia full standard term.	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)	Indication 1)
Herbal medicinal product for the relief of sleep disorders.	Traditional herbal medicinal product for relief of mild symptoms of mental stress.
	Indication 2)
	Traditional herbal medicinal product used to aid sleep.
	The product is a traditional herbal medicinal product for use in specified indications exclusively based on long-standing use.

4.2. Posology and method of administration

Well-established use	Traditional use
Posology	Posology
Adolescents over 12 years of age, adults, elderly	Adolescents over 12 years of age, adults, elderly
Single dose	Liquid extracts:
Herbal preparation a): Fixed combinations of 187 mg/28 mg - 500 mg/65 mg dry extracts of valerian root and hop strobiles, respectively	 Liquid extract (DER 1:6.3): single dose 20 ml Liquid extract (DER 1:1): 40 or 75 drops in a half glass of water
1-2 doses half to one hour before bedtime, not exceeding 500 mg of valerian extract.	Dry extracts:
Herbal preparation b): Fixed combination of 200 mg/45-mg – 350 mg/70 mg of dry extracts of valerian root and hop strobiles, respectively	 a) Fixed combinations of 80 mg/20 mg or 160 mg/40 mg dry extracts of valerian root and hop strobiles, respectively Daily dosage: 3 x 3 doses or 3 x 2 doses for
1-2 doses half to one hour before bedtime, not exceeding 500 mg of valerian extract.	indication 1 and 3 x 1 or 2 x 1 doses 1 hour before bedtime for indication 2
The use in children below the age of 12 years is not recommended (see 4.4. 'Special warning and precautions for use').	 b) Fixed combination of 187 mg/45 mg dry extracts of valerian root and hop strobiles, respectively Daily dosage: up to 3 x 1 doses for indication 1
Duration of use	and 1 dose 1 hour before bedtime for indication
Because of its gradual onset of efficacy fixed combinations of valerian root and hops are not suitable for acute interventional treatment of mild nervous tension or sleep disorders. To achieve an optimal treatment effect, the continued use over 4 weeks is recommended.	 2 c) Fixed combinations of 100 mg/30 mg of dry extracts of valerian root and hop strobiles, respectively Daily dosage: 2-3 doses for indication 1 and 2 doses 1 hour before bedtime for indication 2
If symptoms persist or worsen after 4 weeks of continued use, a doctor should be consulted.	 d) Fixed combinations of 125 mg/25 mg of dry extracts of valerian root and hop strobiles,
Method of administration Oral use.	respectively Daily dosage: up to 3 x 2 doses for indication 1 and 2 doses 1 hour before bedtime for indication 2
	 e1) Fixed combinations of 100 mg/24 mg - 32 mg dry extracts of valerian root and hop strobiles, respectively Daily dosage: 3 x 2 doses for indication 1 and 2 doses 1 hour before bedtime for indication 2
	 e2) Fixed combinations of 68 mg/16 mg of dry extracts of valerian root and hop strobiles, respectively Daily dosage: 3 x 3 doses for indication 1 and 3 doses 1 hour before bedtime for indication 2 f) Fixed combinations of 225 mg/30 mg dry

extracts of valerian root and hop strobiles, respectively Daily dosage: 3x1 doses for indication 1 and 1- 2 doses 1 hour before bedtime for indication 2
 g) Fixed combinations of 77 mg/18.8 mg of dry extracts of valerian root and hop strobiles, respectively Daily dosage: 3 x 2 doses for indication 1 and 2 doses 1 hour before bedtime for indication 2
The use in children below the age of 12 years is not recommended (see 4.4. 'Special warning and precautions for use').
Duration of use
If the symptoms persist longer than 4 weeks of continued 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 substances.	Hypersensitivity to the active substances.

4.4. Special warnings and precautions for use

Well-established use	Traditional use
The use of these fixed combinations is not recommended in children below the age of 12 years, due to lack of adequate data.	The use of these fixed combinations is not recommended in children below the age of 12 years, due to lack of adequate data. For extracts containing ethanol, the appropriate labelling for ethanol, taken from the "Guideline on excipients in the label and package leaflet of medicinal products for human use" must be included.

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

Well-established use	Traditional use
Only limited data on pharmacological interactions	Only limited data on pharmacological interactions
with other medicinal products are available.	with other medicinal products are available.

Clinically relevant interaction with drugs	Clinically relevant interaction with drugs
metabolised by the CYP 2D6, CYP 3A4/5, CYP 1A2	metabolised by the CYP 2D6, CYP 3A4/5, CYP 1A2
or CYP 2E1 pathway has not been observed.	or CYP 2E1 pathways has not been observed.
Combination with synthetic sedatives requires	Combination with synthetic sedatives is not
medical diagnosis and supervision.	recommended.

4.6. Pregnancy and lactation

Well-established use	Traditional use
Safety during pregnancy and lactation has not been established.	Safety during pregnancy and lactation has not been established.
As a precautionary measure, because of lack of data, use during pregnancy and lactation is not recommended.	As a precautionary measure, because of lack of data, use during pregnancy and lactation is not recommended.

4.7. Effects on ability to drive and use machines

Well-established use	Traditional use
May impair ability to drive and use machines.	May impair ability to drive and use machines.
Affected patients should not drive or operate	Affected patients should not drive or operate
machinery.	machinery.

4.8. Undesirable effects

Well-established use	Traditional use
Gastrointestinal symptoms (e.g. nausea, abdominal cramps) may occur after ingestion of valerian root preparations. The frequency is not	Gastrointestinal symptoms (e.g. nausea, abdominal cramps) may occur after ingestion of valerian root preparations. The frequency is not
known.	known.
If other adverse reactions not mentioned above occur, a doctor or a pharmacist should be consulted.	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
Valerian root at a dose of approximately 20 g	Valerian root at a dose of approximately 20 g
caused benign symptoms (fatigue, abdominal	caused benign symptoms (fatigue, abdominal
cramp, chest tightness, lightheadedness, hand	cramp, chest tightness, lightheadedness, hand
tremor and mydriasis), which disappeared within	tremor and mydriasis), which disappeared within
24 hours. If symptoms arise, treatment should be	24 hours. If symptoms arise, treatment should be
supportive.	supportive.

5. Pharmacological properties

5.1. Pharmacodynamic properties

5.2. Pharmacokinetic properties

Well-established use	Traditional use
No data available.	Not required as per Article 16c (1)(a)(iii) of Directive 2001/83/EC as amended.

5.3. Preclinical safety data

Well-established use	Traditional use
Extracts with ethanol and the essential oil of valerian root have shown low toxicity in solvents during acute tests and from repeated dose toxicity over periods of 4-8 weeks. Tests on reproductive toxicity, genotoxicity and carcinogenocity of valerian root preparations have not been performed. Tests on genotoxicity of water/ethanolic extracts of hop strobiles were negative. Tests on genotoxicity were not performed for water extracts of hops. Tests on reproductive toxicity and carcinogenicity of hop preparations have not been performed.	Not required as per Article 16c(1)(a)(iii) of Directive 2001/83/EC as amended, unless necessary for the safe use of the product. Extracts with ethanol and the essential oil of valerian root have shown low toxicity in rodents during acute tests and from repeated dose toxicity over periods of 4-8 weeks. Tests on reproductive toxicity, genotoxicity and carcinogenocity of valerian root preparations have not been performed. Tests on genotoxicity of water/ethanolic extracts of hop strobiles were negative. Tests on genotoxicity were not performed for water extracts of hops. Tests on reproductive toxicity and carcinogenicity of hop preparations have not been performed.

6. Pharmaceutical particulars

Well-established use	Traditional use
Not applicable.	Not applicable.

7. Date of compilation/last revision



