



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

28 January 2015
EMA/HMPC/18031/2014
Committee on Herbal Medicinal Products (HMPC)

List of references supporting the assessment of *Agrimonia eupatoria* L., herba

Final

The European Medicines Agency acknowledges that copies of the underlying works used to produce this monograph were provided for research only with exclusion of any commercial purpose.

Barton BH, Castle T, Jackson JR. The British Flora Medica. Chatto and Windus, London 1877

Bartram T. Encyclopedia of Herbal Medicine. Grace Publishers, Dorset 1995

Bilia AR, Palme E, Catalano S, Pistelli L, Morelli I. Constituents and biological assay of *Agrimonia eupatoria*. *Fitoterapia* 1993a, 64:549-550

Bilia AR, Palme E, Marsili A, Pistelli L, Morelli I. A flavonol glycoside from *Agrimonia eupatoria*. *Phytochemistry* 1993b, 32(4):1078-1079

Blaschek W, Hänsel R, Keller K, Reichling J, Rimpler H, Schneider G, editors. Hagers Handbuch der Pharmazeutischen Praxis. Drogen A-K. Vol 2. 5th ed. Springer-Verlag, Berlin 1998

Blumenthal M, Busse WR, Goldberg A, Gruenwald J, Hall T, Riggins CW, *et al.*, editors. The Complete German Commission E Monographs. American Botanical Council, Austin Texas 1998

Bradley PR, editor. British Herbal Compendium. Vol 2. British Herbal Medicine Association, Bournemouth 1992

British Herbal Pharmacopoeia. 2nd ed. British Herbal Medicine Association, Bournemouth 1976

British Herbal Pharmacopoeia. 3rd ed. British Herbal Medicine Association, Bournemouth 1983

Bukovsky M, Blanárik P. Immunomodulative effects of ethanolic-aqueous extracts of herba *Agrimoniae*, flos *Chamomillae* and flos *Calendulae* cum calyce. *Farm Obz* 1994, 63:149-156

Carnat A, Lamaison JL, Petitjean-Freytet C. L'aigremoine: étude comparée d'*Agrimonia eupatoria* L. et *Agrimonia procera* Wallr. *Plantes Méd Phytothér* 1991, 25(4):202-211

Duke JA. Handbook of Medicinal Herbs. CRC Press, Boca Raton Florida 1985

30 Churchill Place • Canary Wharf • London E14 5EU • United Kingdom

Telephone +44 (0)20 3660 6000 Facsimile +44 (0)20 3660 5555

Send a question via our website www.ema.europa.eu/contact

An agency of the European Union



ESCOP Monographs 2nd ed. Supplement. Agrimoniae herba - Agrimony herb. European Scientific Cooperative on Phytotherapy, editor. Thieme, Stuttgart 2009, 3-5

European Pharmacopoeia 8th ed. Agrimony – Agrimoniae herba. Council of Europe. 01/2011:1587, 1138-1139

Feng, XL, He YB, Liang YZ, Wang YL, Huang LF, Xie JW. Comparative analysis of the volatile components of *Agrimonia eupatoria* from leaves and roots by gas chromatography-mass spectrometry and multivariate curve resolution. *J Anal Method Chem* 2013, Article ID 246986

Fluck H. Medicinal Plants and their uses. W Foulsham & Co, Slough 1976

Giachetti D, Taddei E, Taddei I. Ricerche sull'attività diuretica ed uricosurica di *Agrimonia eupatoria*. *Boll Soc Ital Biol Sper* 1986, 62:705-711

Giachetti D, Taddei I, Cenni A, Taddei E. Diuresis from distilled water compared with that from vegetable drugs. *Planta Med* 1989, 55(1):97

Granica S, Krupa K, Kłębowska A, Kiss AK. Development and validation of HPLC-DAD-CAD-MS3 method for qualitative and quantitative standardization of polyphenols in *Agrimoniae eupatoriae herba* (Ph. Eur). *J Pharm Biomed Anal* 2013, 86:112–122

Gray AM, Flatt PR. Actions of the traditional anti-diabetic plant, *Agrimonia eupatoria* (agrimony): effects on hyperglycaemia, cellular glucose metabolism and insulin secretion. *Br J Nutr* 1998, 80(1):109-114

Grieve M. A modern herbal: The medicinal, culinary, cosmetic and economic properties, cultivation and folklore of herbs, grasses, fungi, shrubs and trees with all their modern scientific uses. Vol 1. Jonathan Cape, London 1931

Hill J. British Herbal, T Osborne and J Shipton, London 1756

Hsu FL, Cheng JT. Investigation in rats of the antihyperglycaemic effect of plant extracts used in Taiwan for the treatment of diabetes mellitus. *Phytother Res* 1992, 6(2):108-111

Ivanova D, Gerova D, Chervenkov T, Yankova T. Polyphenols and antioxidant capacity of Bulgarian medicinal plants. *J Ethnopharmacol* 2005, 96(1-2):145-150

Izzo AA, Capasso R, Senatore F, Seccia S, Morrica P. Spasmolytic activity of medicinal plants used for the treatment of disorders involving smooth muscles. *Phytotherapy Res* 1996, 10 (Suppl):S107-S108

Kwon DH, Kwon HY, Kim HJ, Chang EJ, Kim MB, Yoon SK, et al. Inhibition of hepatitis B virus by an aqueous extract of *Agrimonia eupatoria* L. *Phytother Res* 2005, 19(4):355-358

Lamaison JL, Carnat A, Petitjean-Freytet C. Teneur en tannins et activité inhibitrice de l'élastase chez les Rosaceae. [Tannin content and inhibiting activity of elastase in Rosaceae.] *Ann Pharm Fr* 1990, 48(6):335-340

Le Men J, Pourrat H. Repartition de l'acide ursolique dans les feuilles de diverses Rosaceae – Acid ursolique (Cinquieme memoire). [Distribution of ursolic acid in the leaves of various Rosaceae; ursolic acid. V.] *Ann Pharm Fr* 1955, 13(3):169-170

Min BS, Bae KH, Kim YH, Miyashiro H, Hattori M, Shimotohno K. Screening of Korean plants against human immunodeficiency virus type 1 protease. *Phytother Res* 1999, 13(8):680-682

Ministere de la Sante et de L'action Humanitaire. Medicaments a base de plantes. Paris 1990

- Miyamoto K, Koshiura R, Lkeya Y, Taguchi H. Isolation of agrimoniin, an antitumour constituent, from the roots of *Agrimonia pilosa* Ledeb. *Chem Pharm Bull* 1985, 33:3977–3981
- Miyamoto K, Kishi N, Koshiura R. Antitumour effect of agrimoniin, a tannin of *Agrimonia pilosa* Ledeb., on transplantable rodent tumors. *Jpn J Pharmacol* 1987, 43(2):187-195
- Miyamoto K, Kishi N, Murayama T, Furukawa T, Koshiura R. Induction of cytotoxicity of peritoneal exudate cells by agrimoniin, a novel immunomodulatory tannin of *Agrimonia pilosa* Ledeb. *Cancer Immunol Immunother* 1988, 27(1):59-62
- Murayama T, Kishi N, Koshiura R, Takagi K, Furukawa T, Miyamoto K. Agrimoniin, an antitumour tannin of *Agrimonia pilosa* Ledeb., induces interleukin-1. *Anticancer Res* 1992, 12(5):1471-1474
- Patrascu V *et al.* Rezultate terapeutice favorabile in porfirie cutanata cu *Agrimonia eupatoria*. *Dermatovenerologia* 1984, 29:153-157
- Petkov V. Plants with hypotensive, antiatheromatous and coronarodilatating action. *Am J Chin Med* 1979, 7(3):197-236
- Petkov V. Bulgarian traditional medicine: A source of ideas for phytopharmacological investigations. *J Ethnopharmacol* 1986, 15(2):121-132
- Salmon W. English Herbal. Dawks I, London 1710
- Schimmer O, Krüger A, Paulini H, Haefele F. An evaluation of 55 commercial plant extracts in the Ames mutagenicity test. *Pharmazie* 1994, 49(6):448-52
- Sendra J, Zieba J. Flavonoids from *Agrimonia eupatoria* L. *Diss Pharm Pharmacol* 1972, 24:79-83
- Swanston-Flatt SK, Day C, Bailey CJ, Flatt PR. Traditional plant treatments for diabetes in normal and streptozotocin diabetic rats. *Diabetologia* 1990, 33:462-464
- Wichtl M, editor. Herbal Drugs and Phytopharmaceuticals. 3rd ed. Medpharm Scientific Publishers, Stuttgart 2004
- Wren RC. Potter's New Cyclopedia of Botanical Drugs and Preparations. 7th ed. Health Science Press, Rustington 1971
- Yamaki M, Miwa M, Ishiguro K, Takagi S. Antimicrobial activity of naturally occurring and synthetic phloroglucinols against *Staphylococcus aureus*. *Phytother Res* 1994, 8:112-114