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Committee on Herbal Medicinal Products (HMPC)

List of references supporting the assessment of *Capsella bursa-pastoris* (L.) Medikus, herba

Draft

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

Aksoy A. *Capsella bursa-pastoris* (L.) Medic. As a biomotor of heavy metals. *Science of the Total Environment*, 1999, 226(23):177-186.

Al-Khalil S et al. Chemical constituents of *Capsella bursa-pastoris*. *Alexandria Journal of Pharmaceutical Sciences*, 2000, 14(2):91-94.

Barnes J, Anderson L, Philipson JD. Shepherd's Purse. *Herbal Medicines*, 3rd edition, Pharmaceutical Press, London 2007, 541-542.

Bekker et al. Lipids of the aerial parts of *Capsella bursa-pastoris*. *Chemistry of natural compounds*, 2002, 38(6):610-11.

Blumenthal M et al. Shepherd's Purse. The complete German Commission E monographs. American Botanical Council, Austin Texas 1998, 209.

British Herbal Pharmacopoeia. British Herbal Medicine Association, Exeter 1983/1996, 46-47/169-170.

Bühning U, Ell-Beiser H, Girsch M. Hirtentäschel. Heilpflanzen in der Kinderheilkunde-Das Praxis-Lehrbuch. Sonntag Verlag, Aachen 2007, 79.

Felter HW. *Capsella*. The Eclectic Materia Medica, Pharmacology and Therapeutics, J.K. Scudder, Ohio 1922, 23.

Guil-Guerero JS, Giménez-Martínez JJ, Torija-Isasa ME. Nutritional composition of wild edible Crucifer species. *Journal of Food Biochemistry*, 1999, 23:283-294.

Hellemont J, van. Fytotherapeutisch compendium. 2nd ed. Bohn Scheltema Holkema, Utrecht 1988, 599-605.

Heo BG, Park YS, Chon SU, Lee SY, Cho JY and Gorinstein S. Antioxidant activity and cytotoxicity of methanol extracts from aerial parts of Korean salad plants. *Biofactors*, 2007, 30:79-89.

Herbalgram. *Shepherd's Purse*; Herbal Medicine, via www.herbalgram.org, consulted 24-10-2008.

- Hopkins RJ, van Dam NM, van Loon J. Role of glucosinolates in insect-plant relationships and multitrophic interactions. *Annual review of Entomology*, 2009, 54:57-83.
- International Agency for Research on Cancer (IARC). Allyl isothiocyanate. Summaries and Evaluations. 1999, 73:37.
- Jurisson S. Flavonoid substances of *Capsella bursa-pastoris*. *Farmatsiya (Moscow)*, 1973, 22:34-35 (In Barnes et al. 2007).
- Jurisson S. Determination of active substances of *Capsella bursa-pastoris*. *Tartu Riiliku Ulikooli Toim*, 1971, 270:71-79 (In Barnes et al. 2007).
- Khare CP, (ed.) *Capsella bursa-pastoris*. Indian Medicinal Plants – An Illustrated Dictionary. Springer-Verlag, Berlin/Heidelberg 2007, 119.
- Koninklijke Nederlandse Maatschappij ter Bevordering der Pharmacie (KNMP), 1990. *Capsella bursae-pastoris herba*. Fytotherapeutisch Formularium, 1990, 77-79.
- Krul C, Humblot C, Philippe C, Vermeulene M, van Nuenen M, Havenaar R, Rabot S. Metabolism of sinigrin (2-propenyl glucosinolate) by the human colonic microflora in a dynamic in vitro large-intestinal model. *Carcinogenesis*, 2002, 23(6):1009-1016.
- Kuroda K, Kaku T. Pharmacological and chemical studies on the alcohol extract of *Capsella bursa-pastoris*. *Life Sciences*, 1969, 8(1):151-155.
- Kuroda K, Akao M, Kanisaw M, Miyaki K. Inhibitory effect of *Capsella bursa-pastoris* extract on growth of Ehrlich tumor in mice. *Cancer Res*, 1976, 36(6):1900-1903.
- Kuroda K, Akao M, Kanisawa M, Miyaki K. Inhibitory effect of *Capsella bursa-pastoris* on hepatocarcinogenesis induced by 3'methyl-4-(dimethylamino)azobenzene in rats. *Gann*, 1974, 65:317-321.
- Kuroda K, Akao M. Effect of *Capsella bursa-pastoris* on liver catalase activity in rats fed 3'methyl-4-(dimethylamino)azobenzene. *Gann*, 1975, 66:461-462.
- Kuroda K, Tagaki K. Studies on *Capsella bursa-pastoris*. I. General pharmacology of ethanol extract of the herb. *Arch Int Pharmacodyn Ther*, 1969, 178(2):382-391 (In Barnes et al. 2007).
- Kuroda K, Tagaki K. Studies on *Capsella bursa-pastoris*. II. Diuretic, anti-inflammatory and anti-ulcer action of ethanol extracts of the herb. 1969, 178(2):392-399 (In Barnes et al. 2007).
- Kuroda K, Tagaki K. Physiologically active substance in *Capsella bursa-pastoris*. *Nature*, 1968, 220(168):707-708.
- Kuroda K. Neoplasm inhibitor from *Capsella bursa-pastoris*. *Japan Kokai*, 1977; 41:207 (In Barnes et al. 2007).
- Kuroda K. Pharmacological and anticarcinogenic effects of *Capsella bursa-pastoris* extract. *Chiba Med*, 1989, 65:67-74.
- Legifrance. Arrêté du 25 août 1997 portant additif no 38 à la Pharmacopée française (10^e édition). Journal Officiel de la République Française no 222 du 24 septembre 1997 page 13827, via www.legifrance.gouv.fr, consulted on 24-08-2010.
- Maillard C, Barlatier A, Debrauwer L, Calaf R, Balansard G. Identification des amides aminés des parties aériennes de Bourse-à-Pasteur, *Capsella bursa-pastoris*, Moench. Intérêt dans le contrôle analytique. *Ann Pharm Fr*, 1988, 46:211-216.

- Martindale. Shepherd's Purse, via www.martindale.com, consulted in 2009.
- Mc Guffin et al (ed). Botanical Safety Handbook. CRC Press, Boca Raton 1997, 23.
- Moskalenko SA. Preliminary screening of far-eastern ethnomedicinal plants for antibacterial activity. *Journal of Ethnopharmacology*, 1986, 15:231-259.
- New Zealand Food Safety Authority. Glucosinolates – Information sheet, via www.nzfsa.govt.nz consulted on 31-05-2010.
- Park RJ. The occurrence of mustard oil glucosides in *LEPIDIUM HYSSOPIFOLIUM* DESV., *L. BONARIENSE* (L.) and *CAPSELLA BURSA PASTORIS* (L.) MEDIC. *Aust J Chem*, 1967, 20:2799-801.
- Sabri NN, Sarg T, Seif-EL-Din AA. Phytochemical investigation of *Capsella bursa-pastoris* (L.) Medik. Growing in Egypt. *Egypt J Pharm Sci*, 1975, 16(4):521-522.
- Schulz V, Hänsel R, Tyler VE. Rational Phytotherapy. A Physician's Guide to Herbal Medicine. Springer-Verlag, Berlin Heidelberg New York 1998, 239, 245.
- Seitz R, Gorecki P. *Capsella*. In: Hagers Handbuch der Drogen und Arzneistoffe, HagerROM, Springer Verlag, Berlin Heidelberg New York 2003.
- Song et al. Several flavonoids from *Capsella bursa-pastoris* (L.) Medic. *Asian Journal of Trad Medicines*, 2007, 2(5):218-22.
- Steinmetz EF. *Materia Medica Vegetabilis*. 1954.
- Szentmihalyi K, Taba G, Lado C, Fodor J, Then M, Szoke E. Medicinal plant teas recommended as natural source for element supplementation. *Acta Alimentaria*, 2005, 34(2):161-167.
- Wichtl M. In: Bisset NG (ed). Shepherd's purse. Max Wichtl's Herbal drugs & phytochemicals: a handbook for practice on a scientific basis. CRC Press, Boca Raton 1994, 94-96.