

1 July 2014
EMA/HMPC/35559/2014

Committee on Herbal Medicinal Products (HMPC)

List of references supporting the assessment of *Eschscholzia californica* Cham., herba

Draft

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.

Adams JD Jr, Garcia C. 2006. Women's health among the Chumash. Evid Based Complement Alternat Med. 3(1): 125-131.

Baldacci R. 1990. Contribution à l'utilisation en médecine de ville d'*Eschscholtzia californica*.
Phytotherapy 22: 31-33.

Bartram T. 1995. Encyclopedia of Herbal Medicine, 1st ed. Grace publishers. Dorset, G.B. pp. 82

Bocek BR. 1984. Ethnobotany of Costanoan Indians, California, based on Collections by John P. Harrington. Economic Botany. 38(2): 240-255.

Blumenthal M, Busse WR, Goldberg A, Gruenwald J, Hall T, Riggins CW, Rister RS. 1998. The complete German commission E monographs. Therapeutic guide to herbal medicines, American Botanical Council, Austin. Texas. USA. pp. 389

Bruneton J. 1998. Farmacognosia. Fitoquímica. Plantas medicinales., 2nd ed. Acribia, Zaragoza. Spain. pp. 270, 908-909.

Bruneton J. Pharmacognosie. Phytochimie, plantes médicinales. *Tec et Doc*, 1999; 3^e éditions. Paris. France

Cahiers de L'Agence N°3 - Médicaments à base de plantes - Agence du Médicament, 1998

Canadian Draft Monograph: California poppy. March 5, 2004.

Canadian Monograph: California poppy. March 17, 2008. Available from: http://www.hc-sc.gc.ca/dhp-mps/alt_formats/hpfb-dgpsa/pdf/prodnatur/mono_california-eng.pdf



- Chamberland G. New analgesics for pain management: PavosicTM
- Cheney RH. 1963. Therapeutic potential of *Eschscholtzia californica* Cham. J Crude Drug Res 3(3): 413-416.
- Colombo ML, Tomé, F. 1991. Growth and alkaloid content in *Eschscholtzia californica* in controlled conditions. Planta Med. 57, Suppllement Issue 2
- De Smet P.A.G.M. 1993. *Eschscholtzia californica* Cham. Adverse Effects of Herbal Drugs. Vol.2: 41.
- Duke JA. 2001. Handbook of Medicinal Herbs. CRC Press Boca Raton, Florida. USA. pp. 184
- Felter HW, Lloyd JU. 1898. King's American Dispensatory; ed. 18, rev3, vol 2; first published in 1905, reprinted Portland, 1983. Eclectic Medical Publications, p. 1420. in Mills and Bone: The essential Guide of Herbal Safety. Elsevier Churchill Livingstone. pp. 313-314.
- Fleurentin J. 1993. Ethnopharmacologie et aliments: introduction au sujet et réflexions sur l'efficacité biologique. Actes du 2ème Colloque Européen d'Ethnopharmacologie et de la 11ème Conférence Internationale d'Etnomédecine, Heidelberg, 24-27 mars 1993.
- Fleurentin J, Mortier F, Younos C. 1996. *Eschscholtzia*, *Eschscholtzia californica* Cham. Papaveraceae, in Acupuncture & Médecine Traditionnelle Chinoise. Phytothérapie & aromathérapie. Homéopathie. Ed. Frison-Roche, Paris. France
- French Pharmacopoeia monograph "Eschscholtzia (Parties Aériennes Fleuries)". 10th ed., January 1996
- Gafner S, Dietz BM, McPhail KL, Scott IM, Glinski JA, Russell FE, McCollom MM, Budzinski JW, Foster BC, Bergeron C, Rhyu MR, Bolton JL. 2006. Alkaloids from *Eschscholtzia californica* and their capacity to inhibit binding of [³H]8-Hydroxy-2-(di-N-propylamino)tetralin to 5-HT1A receptors *in vitro*. J Nat Prod. 69(3): 432-435.
- Gruenwald J, Brendler T, Jaenicke C, Editors. 2004. PDR for Herbal Medicines, 3rd ed. Thomson PDR, Montvale. USA. pp 149-150.
- Guedon D, Cappelaere N. 1990. HPLC analysis of the main alkaloids from *Eschscholtzia californica* Cham. Phytochem Anal. 1: 77-82.
- Hanus M, Lafon J, Mathieu M. 2004. Double-blind, randomized, placebo-controlled study to evaluate the efficacy and safety of a fixed combination containing two plant extracts (*Crataegus oxyacantha* and *Eschscholtzia californica*) and magnesium in mild-to-moderate anxiety disorders. Curr Med Res Opin. 20(1): 63-71.
- Kardos J, Blaskó G, Simonyi M. 1986. Enhancement of gamma-aminobutyric acid receptor binding by protopine-type alkaloids. Arzneimittelforschung. 36(6): 939-940.
- Kirkwood CK. 1999. Management of insomnia. J Am Phar Assoc. 39: 688-696.
- Klvana M, Chen J, Lépine F, Legros R, Jolicoeur M. 2006. Analysis of secondary metabolites from *Eschscholtzia californica* by high-performance liquid chromatography. Phytochem Anal. 17(4): 236-242.
- Kleber E, Schneider W, Schäfer HL, Elstner EF. 1995. Modulation of key reactions of the catecholamine metabolism by extracts from *Eschscholtzia californica* and *Corydalis cava*. Arzneimittelforschung. 45(2): 127-131.
- Luduena FP. 1938. Sobre la farmacología de la criptopina. Rev. Soc. Argentina Biol. 14: 339-352.

Mills S, Bone K. 2005. California poppy *in* The essential Guide of Herbal Safety. Elsevier Churchill Livingstone. pp. 313-314.

Mills S, Bone K, Corrigan D, Duke JA, Wright J. 2000. Principles and Practice of Phytotherapy. Modern Herbal Medicine. London. UK. pp. 229-230.

Paul LD, Springer D, Staack RF, et al. 2004. Cytochrome P450 isoenzymes involved in rat liver microsomal metabolism of californine and protopine. Eur J Pharmacol. 485: 69-79.

Paul LD, Maurer HH. 2003. Studies on the metabolism and toxicological detection of the *Eschscholtzia californica* alkaloids californine and protopine in urine using gas chromatography-mass spectrometry. J Chromatogr B Analyt Technol Biomed Life Sci. 789: 43-57.

Rey JP, Levesque J, Poussset JL, Roblot F. 1991. Analytical and quantitative studies of californin and protopin in aerial part extracts of *Eschscholtzia californica* Cham. with high-performance liquid chromatography. J. Chromatogr A. 587(2): 314-317.

Rolland A, Fleurentin J, Lanher MC, Younos C, Misslin R, Mortier F, Pelt JM. 1991. Behavioural effects of the American traditional plant *Eschscholtzia californica*: sedative and anxiolytic properties. Planta Med. 57(3): 212-216.

Rolland A, Fleurentin J, Lanher MC, Younos C, Misslin R, Mortier F. 2001. Neurophysiological effects of an extract of *Eschscholtzia californica* Cham. (Papaveraceae). Phytother Res. 15(5): 377-381.

Sarris J, McIntyre E, Camfield DA. 2013. Plant-based medicines for anxiety disorders, Part 1: a review of preclinical studies. CNS Drugs. 27(3): 207-219. doi: 10.1007/s40263-013-0044-3.

Singh S, Jain L, Pandey MB. 2009. Antifungal activity of the alkaloids from *Eschscholtzia californica*. Folia Microbiol Praha. 54(3): 204-206.

Vincieri FF, Celli S, Mulinacci N, Speroni E. 1988. An approach to the study of the biological activity of *Eschscholtzia californica* Cham. Pharmacol Res Commun. 20(5): 41-44.

Vogel M, Lawson M, Sippl W, Conrad U, Roos W. 2010. Structure and mechanism of sanguinarine reductase, an enzyme of alkaloid detoxification. J Biol Chem. 285(24): 18397-183406. doi: 10.1074/jbc.M109.088989.