



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

13 January 2021
EMA/HMPC/643161/2018
Committee on Herbal Medicinal Products (HMPC)

List of references supporting the assessment of *Aloysia citrodora* Paláu (syn. *Aloysia triphylla* (L'Hér.) Kuntze; *Verbena triphylla* L'Hér.; *Lippia citrodora* Kunth), folium 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.

Afrasiabian F, Mirabzadeh Ardakani M, Rahmani K, Azadi NA, Alemohammad ZB, Bidaki R, *et al.* *Aloysia citrodora* Palau (lemon verbena) for insomnia patients: A randomized, double-blind, placebo-controlled clinical trial of efficacy and safety. *Phytotherapy Research* 2019, 33:350–359

Arrêté Royal 97-2706, relatif a la fabrication et au commerce des denrées alimentaires composées ou contiennent des plantes ou préparations de plantes. Ministère des Affaires Sociales, de la Santé Publique et de l'Énvironnement. Moniteur belge (21 novembre 1997)

Bahramsoltani R, Rostamiasrabadi P, Shahpiri Z, Marques AM, Rahimi R, Farzaei MH. *Aloysia citrodora* Paláu (Lemon verbena): A review of phytochemistry and pharmacology. *J Ethnopharmacol* 2018, 222: 34–51

Barnes J, Anderson LA, Phillipson J, editors. Herbal Medicines. The Pharmaceutical Press. 3rd ed. London 2007, 405-6

Bruneton J. *Éléments de Phytochimie et de Pharmacognosie. Technique et Documentation.* 1st ed. - Lavoisier, Paris 1987, 247

Catálogo General de Plantas Medicinales, Consejo General de Colegios oficiales de farmacéuticos, Madrid 2007, Spain p. 295

Duke JA, editors. *Handbook of Medicinal Plants*, 2nd ed. CRC-Press, New York 2002 (First published 1929), 457

El-Hawary SS, Yousif MF, Abdel Motaal AA, Abd-Hameed LM. Bioactivities, phenolic compounds and in-vitro propagation of *Lippia citrodora* Kunth cultivated in Egypt. *Bull Faculty of Pharmacy, Cairo University*, 2012, 50:1-6

Official address Domenico Scarlattilaan 6 • 1083 HS Amsterdam • The Netherlands

Address for visits and deliveries Refer to www.ema.europa.eu/how-to-find-us

Send us a question Go to www.ema.europa.eu/contact **Telephone** +31 (0)88 781 6000

An agency of the European Union



- Etemad L, Zafari R, Moallem SA, Vahdati-Mashhadiand N, Shirvan ZS, Hosseinzadeh H. Teratogenic Effect of Verbascoside, Main Constituent of *Lippia citriodora* Leaves, in Mice. *Iranian J Pharm Res* 2016a, 15(2):521-525
- Etemad L, Shirvan ZO, Vahdati-Mashhadian N, Moallem SA, Zafari R, Hosseinzadeh H. Acute, subacute, and cell toxicity of the aqueous extract of *Lippia citriodora*. *Jundishapur J Nat Pharm Prod* 2016b, 11(3)
- European Pharmacopoeia 9th ed. Lemon verbena leaf – *Verbenae citriodora* folium. Council of Europe. 01/2012: 1834; 1412-1414
- Fitoterapia, Vademecum de prescripcion CITA, Bilbao 1992, Spain, p 188
- French Pharmacopoeia monograph "Verveine odorante". 8th ed., 1965
- Guenther E. The Essential Oils, six volumes. Van Nostrand, New York 1948.
- Jiménez-Ferrer E, Santillán-Urquiza MA, Alegría-Herrera E, Zamilpa A, Noguerón-Merino C, Tortoriello J, et al. Anxiolytic effect of fatty acids and terpenes fraction from *Aloysia triphylla*: Serotonergic, GABAergic and glutamatergic implications. *Biomed & Pharmacother* 2017, 96:320–327
- Lenoir L, Joubert-Zakeyh J, Texier O, Lamaison JL, Vasson MP, Felgines C. Lemon Verbena Infusion Consumption Attenuates Oxidative Stress in Dextran Sulfate Sodium-Induced Colitis in the Rat. *Dig Dis Sci* 2011, 56:3534–3545
- Martindale. The Complete Drug Reference, 35th ed. (Sweetman S, ed.) Pharmaceutical Press, London: 2007 pp. 2543
- Médicaments à base de plantes: Les Cahiers de L'Agence n° 3 Agence du Médicament (this document replaced the previous Avis aux fabricants (published in the Bulletin officiel N° 90/22 of 1990).
- Mothana RAA, Abdo SAA, Hasson S, Althawab FMN, Alagh- bari SAZ, Lindequist U. Antimicrobial, antioxidant and cytotoxic activities and phytochemical screening of some Yemeni medicinal plants. *J Evid Based Complement Altern Med* 2010, 7(3):323–330
- Nakamura T, Okuyama E, Tsukada A, Yamazaki M, Satake M, Nishibe S, et al. Acteoside as the analgesic principle of Cedron (*Lippia triphylla*), a Peruvian medicinal plant. *Chem Pharm Bull* 1997, 45(3):499–504
- Newall CA, Anderson LA, Phillipson J, editors. Herbal Medicines. A Guide for Health-care Professionals. The Pharmaceutical Press, London 1996, 179
- Paris RR, Moysé H. *Precis de Matière Médicale, Pharmacognosie Spéciale Dicotylédones (suite) Gamopétales* Masson & Cie, editors. Vol 3, 1971 253-4
- Pascual ME, Slowing K, Carretero E, Sánchez Mata D, Villar A. *Lippia*: traditional uses, chemistry and pharmacology: a review. *J Ethnopharmacol* 2001, 76:201–214
- Ponce-Monter H, Fernández-Martínez E, Ortiz MI, Ramírez-Montiel ML, Cruz-Elizalde D, Pérez-Hernández N, et al. Spasmolytic and antiinflammatory effects of *Aloysia triphylla* and citral, *in vitro* and *in vivo* studies. *J Smooth Muscle Res* 2010, 46:309-319
- Ragone MI, Sella M, Conforti P, Volonté MG, Consolini AE. The spasmolytic effect of *Aloysia citriodora*, Palau (South American cedro´n) is partially due to its vitexin but not isovitexin on rat duodenum. *J Ethnopharmacol* 2007, 113:258–266
- Ragone MI, Sella M, Pastore A, Consolini AE. Sedative and Cardiovascular Effects of *Aloysia citriodora* Palau on Mice and Rats. *Lat Am J Pharm* 2010, 29(1):79-86

Rosenberg H. editor. Pharmacopendium. Labor, Barcelona 1925, 316

Royal Decree of 18 November 1983 related to the manufacture and marketing of vegetal species to be used in the Food area. Spanish State Journal 28 December 1983

Royal Decree of 29 August 1997 concerning the manufacturing and commercialising of food supplements with plants or plant preparations. Belgian State Journal 21 November 1997 with update on 24 January 2017

Shirvan OZ, Etemad L, Zafari R, Moallem SA, Vahdati-Mashhadian N, Hosseinzadeh H. Teratogenic effect of lippia citriodora leaves aqueous extract in mice. *Avicenna J Phytomed* 2016, 6(2):175-180

Simon JE, [Chadwick](#) AF, Craker LE Herbs – An Indexed Bibliography, 1971–1980. Oxford: Elsevier 1984, 58-9

Van Hellemont J. Compendium de Phytotherapie, Association Pharmaceutique Belge, Brussels 1986, 234-35

Wren RC editor, Potter's New Cyclopaedia of Botanical Drugs and Preparations (revised, Williamson EW, Evans FJ). Saffron Walden, England 1988 (First published 1975), 186

Zamorano-Ponce E, Fernández J, Vargas G, Rivera P, Carballo MA. Protective activity of cedron (*Aloysia triphylla*) infusion over genetic damage induced by cisplatin evaluated by the comet assay technique. *Toxicol Lett* 2004, 152:85–90

Zamorano-Ponce E, Morales C, Ramosa D, Sepúlveda C, Cares S, Rivera P, *et al.* Anti-genotoxic effect of *Aloysia triphylla* infusion against acrylamide-induced DNA damage as shown by the comet assay technique. *Mut Res* 2006, 603:145–150