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COMMITTEE ON HERBAL MEDICINAL PRODUCT (HMPC)

DRAFT

LIST OF REFERENCES FOR ASSESSMENT OF

**Orthosiphonis staminei folium
Orthosiphon stamineus Benth., folium
(Java tea)**

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

Abdel Sattar A, Bankova V, Kujungiev A, Galabov A, Ignatova A, Todorova C, Popov S. *Chemical composition and biological activity of leaf exudates from some Lamiaceae plants*. Pharmazie, 1995. 50: 62-65.

Afssaps (1998). Médicaments à base de plantes. Les cahiers de l'Agence n°3. (Agence du médicament, Ed.)

Akowuah GA, Zhari I, Norhayati I, Khamsah SM, Nor Amin MN, Karupiah S, Zakri Z. *Antioxidant activity of aqueous leaf extracts of Orthosiphon stamineus*. J Trop Med Plants, 2003. 4: 163-168.

Arafat OM, Tham SY, Sadikun A, Zhari I, Haughton PJ, Asmawi MZ. *Studies on diuretic and hypouricemic effects of Orthosiphon stamineus methanol extracts in rats*. J Ethnopharmacol, 2008. 118: 354-360.

Awale S, Tezuka Y, Banskota AH, Adnyana IK, Kadota S. *Highly-oxygenated isopimarane-type diterpenes from Orthosiphon stamineus of Indonesia and their nitric oxide inhibitory activity*. Chem Pharm Bull, 2003c. 51: 268-275.

Awale S, Tezuka Y, Banskota AH, Adnyana IK, Kadota S. *Nitric oxide inhibitory isopimarane-type diterpenes from Orthosiphon stamineus of Indonesia*. J Nat Prod, 2003b. 66: 255-258.

Awale S, Tezuka Y, Banskota AH, Kadota S. *Inhibition of NO production by highly-oxygenated diterpenes of Orthosiphon stamineus and their structure-activity relationship*. Biol Pharm Bull, 2003d. 26: 468-473.

Awale S, Tezuka Y, Banskota AH, Kadota S. *Siphonols A-E: novel nitric oxide inhibitors from Orthosiphon stamineus of Indonesia*. Bioorg Med Chem Lett, 2003a. 13: 31-35.

Barnes J, et al. Herbal medicines (second edition). Ed. Pharmaceutical Press, 2002, 513- 316.

Beaux D, Fleurentin J, Mortier F. *Effect of extracts of Orthosiphon stamineus Benth., Hieracium pilosella L., Sambucus nigra L. and Arctostaphylos uva-ursi (L.) Spreng. in rats*. Phytotherapy Res, 1999. 13: 222-225.

- Blumenthal M, et al. The complete German Commission E Monographs. American Botanical Council, Austin, Texas, 1998. 197.
- Bombardelli E, Bonati A, Gabetta B, Mustich G. *Flavonoid constituents of Orthosiphon stamineus*. Fitoterapia, 1972. 43(12): 35-40.
- Bradley P.R. British Herbal Compendium – Volume 2. British Herbal Medicine Association, 2006.
- British herbal medicine association (BHMA). British herbal pharmacopoeia. British herbal medicine Association, 1996.
- Bruneton J. Pharmacognosie : Phytochimie plantes médicinales 1998. 200-251.
- Casadebeig-Lafon J, Jacob M, Cassanas G, Marion C, Puech A. *Elaboration d'extraits végétaux adsorbés, réalisation d'extraits secs d'Orthosiphon stamineus Benth*. Pharm Acta Helv, 1989. 64: 220-224.
- Chen CP, Lin CC, Namba T. *Screening of Taiwanese crude drugs for antibacterial activity against Streptococcus mutans*. J Ethnopharmacol, 1989. 27: 285-295.
- Chow SY, Liao JF, Yang HY, Chen CF. *Pharmacological effects of Orthosiphonis herba*. J Formosan Med Assoc, 1979. 78: 953-960.
- Commission E monographs. *Orthosiphonis folium (Orthosiphonblätter)*. 1986, revised in 1990 (<http://content.herbalgram.org/youngliving/CommissionE/default.asp?p=864>).
- Dharmaraj S, Hossain MA, Zhari S, Lay Harn G, Ismail Z. *The use of principal component analysis and self-organizing map to monitor inhibition of calcium oxalate crystal growth by Orthosiphon stamineus extract*. Chemometrics and Intelligent Laboratory Systems, 2006. 81: 21-28.
- Doan DD, Nguyen NH and al. *Studies on the individual and combined diuretic effects of four Vietnamese traditional herbal remedies (Zea mays, Imperata cylindrical, plantago major and orthosiphon stamineus)*. J. Ethnopharmacol, 1992. 36: 225-231.
- Englert J and Harnischfeger G. *Diuretic action of aqueous Orthosiphon extract in rats*. Planta Med, 1992. 58: 237-238.
- ESCOP, *ESCOP Monographs* (2nd edition completely revised and expanded). ESCOP-Thieme, 2003.
- Garcia-Moran S, Saez-Royuela F, Gento E, Lopez Morante Ariasa A. *Hepatitis aguda asociada a ingestión de Camellia thea y Orthosiphon stamineus*. Gastroenterol Hepatol., 2004. 27: 559-560.
- Guérin JC and Réveillère HP. *Activité antifongique d'extraits végétaux à usage thérapeutique. II. Etude de 40 extraits sur 9 souches fongiques (Antifungal activity of plant extracts used in therapy. II. Study of 40 plant extracts against 9 fungi species)*. Ann Pharm Franc, 1985. 43: 77-81.
- Hussein AA, Meyer JJM, Jimeno ML, Rodríguez B. *Bioactive diterpenes from Orthosiphon labiatus and Salvia Africana-lutea*. J Nat Prod, 2007. 70: 293-295.
- Kavimani S, Ilango R, Thangadurai JG, Jaykar B, Majumdar UK, Gupta M. *Diuretic activity of aqueous extract of Orthosiphon thymiflorus in rats*. Indian J Pharm Sci, 1997. 59: 96-98.
- Lyckander IM and Malterud KE. *Lipophilic flavonoids from Orthosiphon spicatus as inhibitors of 15-lipoxygenase*. Acta Pharm Nord, 1992. 4: 159-166.
- Malterud KE, Hanche-Olsen IM, Smith-Kielland I. *Flavonoids from Orthosiphon spicatus*. Planta Med, 1989. 55: 569-570.
- Mariam A, Asmawi MZ, Sadikun A. *Hypoglycaemic activity of the aqueous extract of Orthosiphon stamineus*. Fitoterapia, 1996. 67: 465-468.
- Masuda T, Masuda K, Shiragami S, Jitoe A, Nakatani N. *Orthosiphols A and B, novel diterpenoid inhibitors of TPA (12-O-tetradecanoylphorbol-13-acetate)-induced inflammation, from Orthosiphon stamineus*. Tetrahedron, 1992. 48: 6787-6792.
- Matsubara T, Bohgaki T, Watarai M, Suzuki H, Ohashi K, Shibuya H. *Antihypertensive actions of methylripariochromene A from Orthosiphon aristatus, an Indonesian traditional medicinal plant*. Biol Pharm Bull, 1999. 22: 1083-1088.

- Matsubara T, Bohgaki T, Watarai M, Suzuki H, Ohashi K, Shibuya H. *Antihypertensive actions of methylripariochromene A from Orthosiphon aristatus, an Indonesian traditional medicinal plant.* Biol Pharm Bull, 1999. 22: 1083-1088.
- Matsuura S, Kinii T, Iinuma M. *Studies on the flavonoid of Kumis-kuching (Orthosiphon stamineus Benth.).* Yakugaku zasshi : Journal of the Pharmaceutical Society of Japan, 1973. 93(11): 1517-1519.
- Nirdnoy M, et al. *Effects of folia orthosiphonis on Urinary Stone Promoters and Inhibitors.* J.Med. Assoc. Thai., 1991. 74: 318-321.
- Nguyen MTT, Awale S, Tezuka Y, Chien-Hsiung C, Kadota S. *Staminane- and isopimarane-type diterpenes from Orthosiphon stamineus of Taiwan and their nitric oxide inhibitory activity.* J Nat Prod, 2004. 67: 654-658.
- Ohashi K, Bohgaki T, Matsubara T, Shibuya H, *Indonesian Medicinal Plants XXIII. Chemical structures of two new migrated pimarane-type diterpenes, neoorthosiphols A and B, and suppressive effects on rat thoracic aorta of chemical constituents isolated from the leaves of Orthosiphon aristatus (Lamiaceae).* Chem Pharm Bull, 2000. 48: 433-435.
- Olah NK, Radu L, Mogoşan C, Hanganu D, Gocan S. *Phytochemical and pharmacological studies on Orthosiphon stamineus Benth. (Lamiaceae) hydroalcoholic extracts.* J Pharm Biomed Anal, 2003. 33: 117-123.
- Paris RR, Moyses H. Matière médicale Tome III, 1967. 288-290.
- PDR for herbal Medicines (3rd edition). Thomson PDR, 2004.
- PSD (Pesticide Safety Directorate), PSD guidance document: toxicological significance of reduced levels of serum ALT and/or AST in animal studies. Pesticides Safety Directorate, Health and Safety Executive, 2007.
- Rutenbeck H. *Klinische Untersuchungen über ein neues Präparat aus Koemis-Koetjing, dem indischen Nierentee (clinical investigations on a new preparation from Koemis-Koetjing, Indian kidney tea).* Dtsch. Med. Wochenschr., 1935. 10: 377-378.
- Russel WR, Scobbie L, Duthie GG, Chesson A. *Inhibition of 15-lipoxygenase-catalysed oxygenation of arachidonic acid by substituted benzoic acids.* Bioorg Med Chem, 2008. 16: 4589-4593.
- Schut GA and Zwaving JH. *Pharmacological investigation of some lipophilic flavonoids from Orthosiphon aristatus.* Fitoterapia, 1993. 66: 99-102.
- Sriplang K, Adisakwattana S, Rungsipipat A, Yibchok-Anun S. *Effects of Orthosiphon stamineus aqueous extract on plasma glucose concentration and lipid profile in normal and streptozotocin-induced diabetic rats.* J Ethnopharmacol, 2007. 109: 510-514.
- Tiktinsky OL, Bablumyan YA. *The therapeutic effect of Java Tea and Equisetum arvense in patients with uratic diathesis.* Urol Nefrog, 1983. 48: 47-50.
- Yam MF, Ang LF, Basir R, Salman IM, Ameer OZ, Asmawi MZ, *Evaluation of the antipyretic potential of Orthosiphon stamineus Benth standardized extract.* Inflammopharmacology, 2009. 17: 50-54.
- Tezuka Y, et al. *Constituents of the Vietnamese Medicinal Plant Orthosiphon stamineus.* Chem Pharm Bull (Tokyo), 2000. 48(11):1711-1719.