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List of references supporting the assessment of *Taraxacum officinale* Weber ex Wigg., folium

Final

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.

Ahuja TS, Freeman D, Mahnken JD, Agraharkar M, Siddiqui M, Memon A.
Predictors of the development of hyperkalemia in patients using angiotensin-converting enzyme inhibitors.
Am J Nephrol 2000; 20:268-272.

Akhtar MS, Khan QM, Khaliq T.
Effects of *Portulaca oleracea* (kulfa) and *Taraxacum officinale* (dhudhal) in normoglycaemic and alloxan-treated hyperglycaemic rabbits.
J Pakistan Med Assoc 1985; 35:207-210.

Blumenthal M, Busse WR, Goldberg A, Gruenwald J, Hall T, Riggins CW, Rister RS. (eds)
"Dandelion herb" and "Dandelion root with herb"
In: The Complete German Commission E Monographs. Therapeutic Guide to Herbal Medicines.
American Botanical Council, Austin, Texas 1998; 118-120.

Böhm K.
Untersuchungen über choleretische Wirkungen einiger Arzneipflanzen.
Arzneim Forsch/Drug Res 1959; 9:376-378.

Bradley PR ed. British Herbal Compendium Volume I, British Herbal Medicine Association, Bournemouth 1992; 73-75.

British Herbal Pharmacopoeia (BHP). Part One. British Herbal Medicine Association, London 1976; 199.



British Herbal Pharmacopoeia (BHP). Fourth Edition. British Herbal Medicine Association, Exeter 1996; 68-69.

Budzianowski J.

Coumarins, caffeoyltartaric acids and their artifactual methyl esters from *Taraxacum officinale* leaves. *Planta Medica* 1997; 63:288.

Chabrol E, Charonnat R, Maximin M, Walzt R, Porin J.

L'action cholérétique des Compositées.

CR Soc Biol 1931; 108:1100-1102.

Choi JH, Shin KM, Kim NY, Hong JP, Lee YS, Kim HJ, Park HJ, Lee KT.

Taraxinic Acid, a Hydrolysate of Sesquiterpene Lactone Glycoside from the *Taraxacum coreanum* NAKAI, Induces the Differentiation of Human Acute Promyelocytic Leukemia HL-60 Cells.

Biol Pharm Bull 2002; 25:1446-1450.

Day JRS, Chaudhry AN, Hunt I, Taylor KM.

Heparin-induced hyperkalemia after cardiac surgery.

Ann Thorac Surg 2002; 74:1698-1700.

Dietary Guidelines for Americans 2005. Chapter 8: Sodium and Potassium [article online]. U.S. Department of Agriculture.

Available from <http://www.health.gov/Dietary-Guidelines/dga2005/document/html/chapter8.htm>. Accessed 7 November 2008.

ESCOP Monographs, 2nd ed. *Taraxaci folium*. Dandelion leaf. European Scientific Cooperative on Phytotherapy, editor. Thieme, Stuttgart 2003; 499-501.

Evans KJ, Greenberg A.

Hyperkalemia: A Review

J Intensive Care Med 2005; 20:272-290.

Fernandez C, Martin-Esteban M, Fiandor A, Pascual C, Lopez Serrano C, Marinez Alzamora F, Diaz Pena JM, Ojeda Casas JA.

Analysis of cross-reactivity between sunflower pollen and other pollens of the Compositae family.

J Allergy Clin Immunol 1993; 92:660-667.

Funke I, Melzig MF.

Phytotherapie bei Typ-2 Diabetes mellitus.

Z Phytother 2005; 26:271-274.

Gennari FJ.

Hypokalemia.

N Engl J Med 1998; 339:451-458.

Goldberg ED, Amosova EN, Zueva EP, Razina TG, Krylova SG, Reikhardt DV.

Effects of Extracts from Medicinal Plants on the Development of Metastatic Process.
Bull Exp Biol Med 2004; 138(3):288-294.

Gross JL, de Azevedo MJ, Silveiro SP, Canani LH, Caramori ML, Zelmanovitz T.
Diabetic nephropathy: diagnosis, prevention, and treatment.
Diabetes Care 2005; 28:164-176.

HagerROM 2006. Hagers Handbuch der Drogen und Arzneistoffe. Version 5.0, Blaschek W, Ebel S, Hackenthal E, Holzgrabe U, Keller K, Reichling J, Schulz V, (eds). Deutscher Apotheker Verlag, Stuttgart, 2006.

Hagymási K, Blázovics A, Fehér J, Lugasi A, Kristó ST, Kéry A.
The in vitro effect of dandelion antioxidants on microsomal lipid peroxidation.
Phytother Res 2000a; 14:43-44.

Hagymási K, Blázovics A, Lugasi A, Kristó ST, Fehér J, Kéry A.
In vitro antioxidant evaluation of dandelion (*Taraxacum officinale* WEB.) water extracts.
Acta Alimentaria 2000b; 29:1-7.

Hagymási K, Blázovics A, Lugasi A, Kristó ST, Fehér J, Kéry A.
In vitro antioxidant evaluation of dandelion (*Taraxacum officinale* web.) water extracts.
Accredit Quality Assurance 2000c; 5:1-7.

Harkness R, Bratman S.
Mosby's Handbook of Drug-Herb and Drug-Supplement Interactions. Mosby, St. Louis London Philadelphia Sydney Toronto, 2003; 163.

Hausen BM.
Taraxinsäure-1'-O-β-D-glucopyranosid, das Kontaktallergen des Löwenzahns (*Taraxacum officinale* Wiggers).
Dermatosen 1982; 30:51-53.

Hausen BM, Vieluf IK.
Allergiepflanzen/Pflanzenallergene: Handbuch und Atlas der Allergie-induzierenden Wild- und Kulturpflanzen, 2nd edition.
Ecomed Verlagsgesellschaft mbH, Landsberg München 1997.

He FJ, MacGregor GA.
Beneficial effects of potassium on human health.
Physiol Plant 2008; 133:725-735.

- Hemmerle H, Burger HJ, Below P, Schubert G, Rippel R, Schindler PW, Paulus E, Herling AW.
Chlorogenic acid and synthetic chlorogenic acid derivatives: novel inhibitors of hepatic glucose-6-phosphate translocase.
J Med Chem 1997; 40:137-145.
- Hook I, McGee A, Henman M.
Evaluation of dandelion for diuretic activity and variation in potassium content.
Int J Pharmacogn 1993; 31:29-34.
- Hussain Z, Waheed A, Qureshi RA, Burdi DK, Verspohl EJ, Khan N, Hasan M.
The Effect of Medicinal Plants of Islamabad and Murree Region of Pakistan on Insulin Secretion from INS-1 Cells.
Phytother Res 2004; 18:73-77.
- Hyung M, Hwan C, Chung CK.
Activation of inducible nitric oxide synthase by *Taraxacum officinale* in mouse peritoneal macrophages.
Gen Pharmacol 1999; 32:683-688.
- Jarman PR, Kehely AM, Mather HM.
Hyperkalemia in diabetes: prevalence and associations.
Postgrad Med J 1995; 71:551-552.
- Jeon HJ, Kang HJ, Jung HJ, Kang YS, Lim CJ, Kim YM, Park EH.
Anti-inflammatory activity of *Taraxacum officinale*.
J Ethnopharmacol 2008; 115:82-88.
- Johnston KL, Clifford MN, Morgan LM.
Coffee acutely modifies gastrointestinal hormone secretion and glucose tolerance in humans: glycemic effects of chlorogenic acid and caffeine.
Am J Clin Nutr 2003; 78:728-733.
- Jovanović M, Mimica-Dukić N, Poljački M, Boža P.
Erythema multiforme due to contact with weeds: A recurrence after patch testing.
Contact Dermatitis 2003; 48:17-25.
- Kaurinovic B, Popovic M, Cebovic T, Mimica-Dukic N.
Effects of *Calendula officinalis* L. and *Taraxacum officinale* WEBER (Asteraceae) extracts on the production of OH radicals.
Fresenius Environ Bull 2003; 12:250-253.
- Keane B, Collier MH, Shann JR, Rogstad SH.
Metal content of dandelion *Taraxacum officinale* leaves in relation to soil contamination and airborne particulate matter.
Sci Total Environ 2001; 281:63-78.

- Khan MG.
Cardiac Drug Therapy, 6th edition.
W.B. Saunders, Philadelphia 2003.
- Kober L, Torp-Pedersen C, Carlsen JE, Bagger H, Eliassen P, Lyngborg K, Videbaek J, Cole DS, Auclert L, Pauly NC.
A clinical trial of the angiotensin-converting-enzyme inhibitor trandolapril in patients with left ventricular dysfunction after myocardial infarction. Trandolapril Cardiac Evaluation. (TRACE) Study Group.
N Engl J Med 1995; 333:1670-1676.
- Kostis JB, Shelton B, Gosselin G, Goulet C, Hood WB Jr, Kohn RM, Kubo SH, Schron E, Weiss MB, Willis PW III, Young JB, Probstfield J.
Adverse effects of enalapril in the Studies of Left Ventricular Dysfunction (SOLVD).
Am Heart J 1996; 131:350-355.
- Kristó ST, Ganzler K, Apáti P, Szöke E, Kéry A.
Analysis of antioxidant flavonoids from Asteraceae and Moraceae plants by capillary electrophoresis.
Chromatographia 2002; 56:121-126.
- Królak E.
Accumulation of Zn, Cu, Pb and Cd by dandelion (*Taraxacum officinale* WEB.) in environments with various degrees of metallic contamination.
Pol J Environ Studies 2003; 12:713-721.
- Kuusi T, Pyysalo H, Autio K.
The bitterness properties of dandelion. II. Chemical investigations.
Lebensmittel-Wiss Technol 1985; 18:347-349.
- Leung, AY, Foster S. Dandelion root. In: Encyclopedia of Common Natural Ingredients Used in Food, Drugs and Cosmetics, second ed. John Wiley & Sons, New York 1996; 205-207.
- Lopatina KA, Razina TG, Zueva EP, Krylova SG, Amosova EN, Guryev AM.
Plant Polysaccharides in Combined Therapy of Transplanted Tumors.
Bull Exp Biol Med 2007; 143(1):24-27.
- Lovell CR, Rowan M.
Dandelion dermatitis.
Contact Dermatitis 1991; 25:185-188.
- Macdonald JE, Struthers AD.
What is the optimal serum potassium level in cardiovascular patients?
J Am Coll Cardiol 2004; 43:155-161.

Mark KA, Brancaccio RR, Soter NA, Cohen DE.

Allergic contact and photoallergic contact dermatitis to plant and pesticide allergens.
Arch Dermatol 1999; 135:67-70.

Ónal S, Timur S, Okutucu B, Zihnioğlu F.

Inhibition of α -Glucosidase by Aqueous Extracts of Some Potent Antidiabetic Medicinal Plants.
Prep Biochem Biotechnol 2005; 35:29-36.

Palmer BF.

Managing hyperkalemia caused by inhibitors of the renin-angiotensin-aldosterone system.
N Engl J Med 2004; 351:585-592.

Popovic M, Kaurinovic B, Mimica-Dukic N, Vojinovic-Miloradov M, Dordevic A.

Combined effects of plant extracts and xenobiotics on liposomal lipid peroxidation. Part 3. Dandelion extract—CCl₄/fullnerol.
Oxidation Commun 2001; 24:335-343.

Queralt I, Ovejero M, Carvalho ML, Marques AF, Llabrés JM.

Quantitative determination of essential and trace element content of medicinal plants and their infusions by XRF and ICP techniques.
X-Ray Spectrom 2005; 34:213-217.

Rácz-Kotilla E, Rácz G, Solomon A.

The action of *Taraxacum officinale* extracts on the body weight and diuresis of laboratory animals.
Planta Med 1974; 26:212-217.

Rivera-Núñez D. *Taraxacum vulgare* (Lam.) Schrank = *T. Officinale* Weber. In: Aritio, L.B. (Ed.), La guía de incafo de las plantas utiles y venenosas de la Peninsula Ibérica y Baleares (excluidas medicinales). Incafo, Madrid 1991; 1024-1026.

Saulnier P, Crosbie L, Duttaroy AK.

Inhibitory effect of aqueous extracts of some herbs on human platelet aggregation in vitro.
Platelets 2005; 8:469-473.

Seo SW, Koo HN, An HJ, Kwon KB, Lim BC, Seo EA, Ryu DG, Moon G, Kim HY, Kim HM, Hong SH.

Taraxacum officinale protects against cholecystokinin-induced acute pancreatitis in rats.
World J Gastroenterol 2005; 11:597-599.

Sigstedt SC, Hooten CJ, Callewaert MC, Jenkins AR, Romero AE, Pullin MJ, Kornienko A, Lowrey TK, Slambrouck SV, Steelant WF.

Evaluation of aqueous extracts of *Taraxacum officinale* on growth and invasion of breast and prostate cancer cells.
Int J Oncology 2008; 32:1085-1090.

- Simándi B, Kristó ST, Kéry Á, Selmeczi LK, Kmecz I, Kemény S.
Supercritical fluid extraction of dandelion leaves.
J Supercrit Fluids 2002; 23:135-142.
- Tita B, Bello U, Faccendini P, Bartolini R, Bolle P.
Taraxacum officinale W.: pharmacological effect of ethanol extract.
Pharmacol Res 1993; 27:23-24.
- Tsialtas JT, Kassioumi M, Veresoglou DS.
Evaluating Leaf Ash Content and Potassium Concentration as Surrogates of Carbon Isotope Discrimination in Grassland Species.
J Agronomy Crop Sci 2002; 188:168-175.
- Wagner H, Wiesenauer M.
Phytotherapie. Phytopharmaka und pflanzliche Homöopatika.
Gustav Fischer Verlag, Stuttgart Jena New York 1995; 132-134.
- Weiss RF.
Lehrbuch der Phytotherapie. 7th ed.
Hippokrates Verlag, Stuttgart 1991; 162-163.
- Welsch CA, Lachance PA, Wasserman BP.
Dietary phenolic compounds: inhibition of Na⁺ dependent D-glucose uptake in rat intestinal brush border membrane vesicles.
J Nutr 1989; 119:1698-1704.
- Westermann I, Roddick K.
Annual variation in sterol levels in leaves of Taraxacum officinale Weber.
Plant Physiol 1981; 68:872-875.
- Wichtl M.
Teedrogen. Ein Handbuch für Apotheker und Ärzte
Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart 1984; 217-219.
- Williams CA, Goldstone F, Greenham J.
Flavonoids, cinnamic acids and coumarins from the different tissues and medicinal preparations of Taraxacum officinale.
Phytochemistry 1996; 42:121-127.v
- Wolbis M, Krolikowska M.
Polyphenolic compounds of dandelion (Taraxacum officinale).
Acta Pol Pharm 1985; 42:215.

Wolbis M, Królikowska M, Bednarek P.
Polyphenolic compounds in *Taraxacum officinale*.
Acta Pol Pharm 1993; 50:153-158.

Wu SH, Luo XD, Ma YB, Hao XJ, Wu DG.
Anti-gastric ulcer sesquiterpene lactone glycosides from *Crepis napifera*.
Yaoxue Xuebao 2002; 37:33-36.

Yasukawa K, Akihisa T, Inoue Y, Tamura T, Yamanouchi S, Takido M.
Inhibitory effect of the methanol extracts from Compositae plants on 12-O-tetradecanoylphorbol-13-acetate-induced ear oedema in mice.
Phytother Res 1998; 12:484-487.

Zeller W, de Gols M, Hausen BM.
The sensitizing capacity of Compositae plants VI. Guinea pig sensitization experiments with ornamental plants and weeds using different methods.
Arch Dermatol Res 1985; 277:28-35.