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List of references supporting the assessment of *Fragaria vesca* L.; *Fragaria moschata* Weston; *Fragaria viridis* Weston; *Fragaria x ananassa* (Weston) Duchesne ex Rozier, folium

Draft – Revision 1

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.

Akerreta S, Cavero RY, Calvo MI. First comprehensive contribution to medical ethnobotany of Western Pyrenees. *Journal of Ethnobiology and Ethnomedicine* 2007, 3:26. doi: 10.1186/1746-4269-3-26 (available from: http://www.ethnobiomed.com/content/3/1/26)

Akšić MF, Tosti T, Milivojević J, Meland M, Natić M. Comparison of Sugar Profile between Leaves and Fruits of Blueberry and Strawberry Cultivars Grown in Organic and Integrated Production System. *Plants* 2019a, 8: 205. http://dx.doi.org/10.3390/plants8070205

Akšić MF, Zagorac DD, Sredojević M, Milivojević J, Gašić U, Meland M, Natić M. Chemometric Characterization of Strawberries and Blueberries according to Their Phenolic Profile: Combined Effect of Cultivar and Cultivation System. *Molecules* 2019b, 24: 4310. doi:10.3390/molecules24234310

Anderson DM, Rees DI, Wang T. The phenomenon of summer diarrhea and its waning, 1910–1930. *Explorations in economic history.* 2020 October; 78:. doi: 10.1016/j.eeh.2020.101341; available in PMC 2021 May 11.

Blaschek W, Ebel S, Hackenthal E, Holzgrabe U, Keller K, Reichling J, Schulz V, Hrsg. *Hagers Handbuch der Drogen und Arzneistoffe* - Fragaria. HagerROM 2006, Berlin: Springer-Verlag; 2006

Bobowska M, Gobiec K, Grzęda W, Sadowski Z. Mały Poradnik Terapeutyczny. Państwowy Zakład Wydawnictw Lekarskich, Warszawa 1977, (Folium Fragariae) 73-74

Borah M, Ahmed S, Das S. A comparative study of the antibacterial activity of the ethanolic extracts of *Vitex negundo* L., *Fragaria vesca* L., *Terminalia arjuna* and *Citrus maxima. Asian Journal Pharmaceutical & Biological Research (AJPBR)* 2012, 2(3):183-187

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Buricova L, Andjelkovic M, Reblova Z, Jurcek O, Kolehmainen E, Verhe R*, et al*. Antioxidant capacities and antioxidants of strawberry, blackberry and raspberry leaves. *Czech Journal of Food Sciences* 2011, 29:181-189

Buricova L, Reblova Z. Czech medicinal plants as possible sources of antioxidants. *Czech Journal of Food Sciences* 2008, 26(2):132-138

Caceres A, Giron LM, Martinez AM. Diuretic activity of plants used for the treatment of urinary ailments in Guatemala. *Journal of Ethnopharmacology* 1987, 19: 233-245

Camejo-Rodrigues J, Ascensão L, Bonet MA, Vallès J. An ethnobotanical study of medicinal and aromatic plants in the Natural Park of "Serra de São Mamede" (Portugal). *Journal of Ethnopharmacology* 2003, 89(2-3):199-209

Commission E monograph on Fragaria. Bundesanzeiger, amended in Bundesanzeiger No. 22a of 1 February 1990. Available at: http://www.heilpflanzen-welt.de/1990-02-Fragariae-folium-Erdbeerblaetter. Accessed: November 2016

Czapska-Pietrzak I, Studzińska-Sroka E, Bylka W. Ocena działania przeciwcukrzycowego ekstraktów otrzymanych z wybranych surowców roślinnych (Evaluation of antidiabetic activity of extracts obtained from selected plant materials). *Postępy Fitoterapii* 2019, 3: 167-174 (in Polish).

De Smet PAGM. Legislatory Outlook on the Safety of Herbal Remedies. *In Adverse Effects of Herbal Drugs 2*, 1993

Dias IM, Barros L, Morales L, Sanchez-Mata MC, Oliveira BPP, Ferreira ICFR. Nutritional parameters of infusions and decoctions obtained from *Fragaria vesca* L. roots and vegetative parts. *LWT-Food Science and Technolgy* 2015a, 62:32-38

Dias MI, Barros L, Fernandes IP, Ruphuy G, Oliveira BPP, Santos-Buelga C, *et al*. A bioactive formulation based on *Fragaria vesca* L. vegetative parts: Chemical characterization and application in κ-carrageenan gelatin. *Journal of Functional Foods* 2015b, 16:243-255

Dragendorf G. *Die heilpflanzen der verschiedenen völker und zeiten: Ihre anwendung, wesentlichen bestandteile und geschichte. Ein handbuch für ärtze, apotheker, botaniker und droguisten*. Stuttgart Verlag von Ferdinand Enke 1898; p. 277 (available in Google books)

Dyduch M, Najda A. Contents of secondary metabolites at various anatomical parts of three wild strawberry (*Fragaria vesca* L.) cultivars. *Herba Polonica* 2009, 55:147-152

Dymowski W, Jackiewicz K. Ile ziół odmierzamy łyżką albo łyżeczką do przygotowania naparu? Zawartość substancji roślinnych w wybranych łyżkach i łyżeczkach używanych w ciągu ostatnich dekad. *Almanach* 2020, 15(3): 47-57 (in Polish)

Ebbs JH. Summer Diarrhoea. *Canadian Medical Association Journal* 1957, V. 76, pp. 869-871

Eriksson NE, Möller C, Werner S, Magnusson J, Bengtsson U, Zolubas M. Self-reported food hypersensitivity in Sweden, Denmark, Estonia, Lithuania, and Russia. *Journal of investigational allergology and clinical immunology* 2004, 14(1):70-79

Fecka I. Development of Chromatographic Methods for Determination of Agrimoniin and Related Polyphenols in Pharmaceutical Products. *Journal of AOAC International* 2009, 92(2):410-418

Gardner Z, McGuffin M. Botanical Safety Handbook. American Herbal Products Association, Taylor and Francis - *CRC Press*, New York 2013, pp. 374-375 (Fragaria spp.)

Gleńsk M, Dudek MK, Włodarczyk M, Fecka I. Triterpenoids from strawberry *Fragaria* × *ananassa* Duch. cultivar Senga Sengana leaves. *Industrial Crops and Products* 2021, 169, 113668

Goun EA, Petrichenko VM, Solodnikov SU, Suhinina TV, Kline MA, Cunningham G, *et al*. Anticancer and antithrombin activity of Russian plants. *Journal of ethnopharmacology* 2002, 81(3):337-342

Grattan CE, Harman RR. Contact urticaria to strawberry. *Contact Dermatitis* 1985, 13(3):191-192

Gündüz K. Strawberry: phytochemical composition of strawberry (*Fragaria* x *ananassa*). *Nutritional Composition of Fruit Cultivars* (Elsevier) 2016, 733-753

Haffner S, Schultz O-E, Schmid W, Braun R. *Normdosen gebräuchlicher Arzneistoffe und Drogen*. 21., aktualisierte und erweiterte Auflage. Wissenschaftliche Verlagsgesellschaft Stuttgart 2016

Haghi G, Hatami A. Simultaneous quantification of flavonoids and phenolic acids in plant materials by a newly developed isocratic high-performance liquid chromatography approach. *Journal of agricultural and food chemistry* 2010, 58(20):10812-10816

Hampel D, Mosandl A, Wüst M. Biosynthesis of mono-and sesquiterpenes in strawberry fruits and foliage: 2^H labeling studies. *Journal of agricultural and food chemistry* 2006, 54(4): 1473-1478

Havlik J, Gonzalez de la Huebra R, Hejtmankova K, Fernandez J, Simonova J, Melich M, *et al*. Xanthine oxidase inhibitory properties of Czech medicinal plants. *Journal of ethnopharmacology* 2010, 132(2): 461-465

Hänsel R, Keller K, Rimpler H, Schneider G, editors. *Hagers Handbuch der Pharmazeutischen Praxis*XDrogen E-O. Vol 5. Springer-Verlag, Berlin Heidelberg 1993: 184-185

Hyun TK, Kim JS. Genomic identification of putative allergen genes in woodland strawberry (*Fragaria vesca*) and mandarin orange (*Citrus clementina*). *Plant Omics J* 2011, 4(7): 428-434

Ibrahim DZ & Abd El-Maksoud MAE. Effect of strawberry (*Fragaria* x *ananassa*) leaf extract on diabetic nephropathy in rats. *International Journal of Experimental Pathology* 2015, 96: 87-93

Ivanov I, Petkova N, Denev P, Pavlov A. Polyphenols content and antioxidant activities in infusion and decoction extracts obtained from *Fragaria vesca* L. leaves. *Sci Bull Series F Biotechnol* 2015, 19: 145-148

Ivanov IG. Determination of biologically active substances with antioxidant potential in different extracts of *Fragaria vesca* L. leaves and flowers. *Journal of Pharmacognosy and Phytochemistry* 2018, 7(5): 2733-2737 (available at: www.phytojournal.com)

Jarić S, Popović Z, Mačukanović-Jocić M, Djurdjević L, Mijatović M, Karadžić B, *et al*. An ethnobotanical study on the usage of wild medicinal herbs from Kopaonik Mountains (Central Serbia). *Journal of ethnopharmacology* 2007, 111: 160-175

Karlińska E, Masny A, Cieślak M, Macierzyński J, Pecio Ł, Stochmal A, Kosmala M. Ellagitannins in roots, leaves, and fruits of strawberry (*Fragaria* × *ananassa* Duch.) vary with developmental stage and cultivar. *Scientia Horticulturae* 2021, 275: 109665. https://doi.org/10.1016/j.scienta.2020.109665

Katalinic V, Milos M, Kulisic T, Jukic M. Screening of 70 medicinal plant extracts for antioxidant capacity and total phenols. *Food chemistry* 2006, 94: 550–557

Kosch A. Handbuch der Deutschen Arzneipflanzen. Fragariae Folium. Springer, Berlin 1939, 153-154

Lamaison JL, Carnat A, Petitjean-Freytet C. Teneur en tanins et activite inhibitrice de l'elastase chez les Rosaceae. *Annales pharmaceutiques françaises* 1990, 48(6): 335-340

Leporatti ML, Ivancheva S. Preliminary comparative analysis of medicinal plants used in the traditional medicine of Bulgaria and Italy. *Journal of ethnopharmacology* 2003, 87(2-3): 123-142

Liberal J, Francisco V, Costa G, Figueirinha A, Amaral MT, Marques C, Girão H, Lopes MC, Cruz MT, Battista MT. Bioactivity of *Fragaria vesca* leaves through inflammation, proteasome and autophagy modulation. *Journal of ethnopharmacology* 2014, 158: 113–122

Liberal J, Costa G, Carmo A, Vitorino R, Marques C, Domingues MR, *et al*. Chemical characterization and cytotoxic potential of an ellagitannin-enriched fraction from *Fragaria vesca* leaves. *Arabian Journal of Chemistry* 2015. http://dx.doi.org/10.1016/j.arabjc.2015.11.014

Lundberg M, Töpel M, Eriksen B, Nylander JA, Eriksson T. Allopolyploidy in Fragariinae (Rosaceae): comparing four DNA sequence regions, with comments on classification. *Molecular Phylogenetics and Evolution* 2009, 51(2):269-280

Mabberley DJ. *Potentilla* and *Fragaria* (Rosaceae) reunited. *Telopea* 2002, 9(4): 793-802

Malheiros J, Simões DM, Antunes PE, Figueirinha A, Cotrim MD, Fonseca DA. Vascular effects of *Fragaria vesca* L. in human arteries. *Natural Product Research. Part B Bioactive Natural Products* 2023, 37(22) DOI: 10.1080/14786419.2022.2152448. Available at: https://doi.org/10.1080/14786419.2022.2152448

Mallier C, Creuzet E, Lambert C et al. Summer diarrhea in children: a monocentric French epidemiological observational study. *Scientific Reports* (Nature Portfolio) 2023; 13:15078 available at: https://doi.org/10.1038/s41598-023-42098-x

Maliníková E, Kukla J, Kuklová M, Balážová M. Altitudinal variation of plant traits: morphological characteristics in *Fragaria vesca* L. (Rosaceae). *Annals of Forest Researchs* 2013, 56(1): 79-89

Mc Cutcheon AR, Stokes RW, Thorsona LM, Ellis SM, Hancockc REW, Towersd GHN. Anti-Mycobacterial Screening of British Columbian Medicinal Plants. *International Journal of Pharmacognosy* 1997, 35:77-83

Medicinal Plants and Natural Ingredients. International Trade Centre. Market Insider Quarterly Bulletin, Geneva 2015. Available at: http://www.intracen.org/uploadedFiles/intracenorg/Content/Exporters/Market_Data_and_Information/Market_information/Market_Insider/Medicinal_plants/MI_Medicinal_Plants_2015_March.pdf. Uploaded 10/11/2016

Mishra PK, Ram RB, Kumar N. Genetic variability, and genetic advance in strawberry (*Fragaria* x *ananassa* Duch.). *Turkish Journal of Agriculture and Forestry* 2015, 39: 451-458

Moilanen J, KoskinenJuha-Pekka Salminen P. Distribution and content of ellagitannins in Finnish plant species. *Phytochemistry* 2015, 116: 188-197

Mudnic I, Modun D, Brizic I, Vukovic J, Generalic I, Katalinic V, *et al*. Cardiovascular effects in vitro of aqueous extract of wild strawberry (*Fragaria vesca* L.) leaves. *Phytomedicine* 2009, 16: 462-469

Najda A, Dyduch M. Chemical diversity within strawberry (*Fragaria vesca* L.) species. *Herba Polon* 2009a, 55(3): 140-146

Najda A, Dyduch M. Contents and chemical composition of essential oils from wild strawberry (*Fragaria vesca* L.). *Herba Polon* 2009b, 55: 153-162

Nedelcheva A, Pavlova D, Krasteva I, Nikolov S. Medicinal plants biodiversity and their resources of one serpentine site in the Rhodope Mts (Bulgaria). *Natura Montenegrina* (Podgorica) 2010, 9: 373-387

Neves JM, Matos C, Moutinho C, Queiroz G, Gomes LR. Ethnopharmacological notes about ancient uses of medicinal plants in Trás-os-Montes (northern of Portugal). *Journal of Ethnopharmacology* 2009, 124(2): 270-283

Newton SM, Lau C, Wright CW. A review of antimycobacterial natural products. *Phytotherapy Research* 2000, 14(5): 303-322

Oktyabrsky O, Vysochina G, Muzyka N, Samoilova Z, Kukushkina T, Smirnova G. Assessment of anti-oxidant activity of plant extracts using microbial test systems. *Journal of Applied Microbiology* 2009, 106(4): 1175-1183

Olechnowicz-Stępień W, Lamer-Zarawska E. Rośliny lecznicze stosowane u dzieci. Państwowy Zakład Wydawnictw Lekarskich, Warszawa 1986. p. 124-125 (in Polish)

Oszmiański J, Wojdyło A, Gorzelany J, Kapusta I. Identification and characterization of low molecular weight polyphenols in berry leaf extracts by HPLC-DAD and LC-ESI/MS. *Journal of Agricultural and Food Chemistry* 2011, 59:12830-12835

Ożarowski A (Red.) Ziołolecznictwo. Poradnik dla lekarzy. Państwowy Zakład Wydawnictw Lekarskich, Warszawa 1976, p. 109-110 (in Polish)

Ożarowski A, Łańcucki J, Gąsiorowska K. Leki Roślinne. Informator. Zjednoczenie Przemysłu Zielarskiego Herbapol. Warszawa 1978, 122-123 (in Polish)

Österreichisches Arzneibuch ÖAB 2013. Erdbeerblätter. Fragariae folium. *Amtliche Ausgabe* 2013, ÖAB 2013/076, pp. 281-4

Pawlaczyk I, Czerchawski L, Pilecki W, Lamer-Zarawska E, Gancarz R. Polyphenolic-polysaccharide compounds from selected medicinal plants of Asteraceae and Rosaceae families: Chemical characterization and blood anticoagulant activity. *Carbohydrate Polymers* 2009, 77; 568–775

Pawlaczyk I, Lewik-Tsirigotis M, Capek P, Matulová M, Sasinková V, Dąbrowski P. *et al*. Effects of extraction condition on structural features and anticoagulant activity of *F. vesca* L. conjugates. *Carbohydrate polymers* 2013, 92(1): 741-750

Pereira FA, Santos T, Pereira SG, Amaral MT, Cardoso O, Batista MT. Activity f strawberry (*Fragaria vesca*) leaf phenolic extracts on metallo-beta-lactamase VIM-2 producers Pseudomonas aeruginosa. *Clin Microbiol Infect* 2012, 18, Suppl.3: 755-756

Popović Z, Smiljanic M, Kostic M, Nijic P, Jankovic S. Wild flora and its usage in traditional phytotherapy (Deliblato Sands, Serbia, South East Europe). *Indian Journal of Traditional Knowledge* 2014, 13:9-35

Raudonis R, Raudone L, Jakstas V, Janulis V. Comparative evaluation of post-column free radical scavenging and ferric reducing antioxidant power assays for screening of antioxidants in strawberries. *Journal of Chromatography A* 2012, 1233: 8-15

Robins-Browne RM, Still CS, Miliotis MD et al. Summer diarrhea in African infants and Children. *Archives of Disease in Childhood* 1980; 55: 923-928

Rossoff IS. Encyclopedia of Clinical Toxicology. Strawberry. *CRC Press*, New York 2002, 1003

Rousseau-Gueutin M, Gaston A, Aïnouche A, Aïnouche ML, Olbricht K, Staudt G, *et al*. Tracking the evolutionary history of polyploidy in *Fragaria* L. (strawberry): new insights from phylogenetic analyses of low-copy nuclear genes. *Molecular phylogenetics and evolution* 2009, 51(3): 515-530

Sargent DJ, Davis TM, Simpson DW. Strawberry (*Fragaria* spp.) Structural Genomics, In: Folta KM, Gardiner SE, editors. *Genetics and Genomics of Rosaceae*, Plant Genetics and Genomics: Crops and Models. Springer Science+Business Media, 2009

Scheller B. Untersuchungen zur Identitätsprüfung und Gehaltsbestimmung von Fragariae folium. Thesis, Wien 2013

Schneider W. Pflanzliche Drogen. Sachwörterbuch zur Geschichte der pharmazeutischen Botanik Teil 2, D–0, Govi Verlag, Frankfurt 1974

Scholz E Fragaria in: Blaschek W, Hänsel R, Keller K, Reichling J, Rimpler H, Schneider G, editors. *Hagers Handbuch der Pharmazeutischen Praxis. Drogen E-O*. Vol 5. Springer-Verlag, Berlin 1993; p.181-188

Schönfelder I, Schönfelder P. *Der neue Kosmos Heilpflanzenführer*: *Über 600 Heil- und Giftpflanzen Europas Taschenbuch*. Franckh-Kosmos Verlag, 2004

Shikov AN, Narkevich IA, Akamova AV, Nemyatykh OD, Flisyuk EV, Luzhanin VG, Povydysh MN, Mikhailova IV, Pozharitskaya OV. Medical Species Used in Russia for the Management of Diabetes and Related Disorders. *Frontiers in pharmacology, Sec Ethnopharmacol* 2021, 12:697411. doi: 10.3389/fphar.2021.697411

Skupień K, Oszmiański J, Kostrzewa-Nowak D, Tarasiuk J. In vitro antileukaemic activity of extracts from berry plant leaves against sensitive and multidrug resistant HL60 cells. *Cancer letters* 2006, 236(2): 282-291

Sneha S. PhD Thesis: *Comparative evaluation of red raspberry and strawberry leaf extracts in the management of recurrent aphthous stomatitis - a randomized controlled study*. Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka. College of Dental Science, 2019

Stafford HA and Lester HH. Procyanidins (Condensed Tannins) in Green Cell Suspension Cultures of Douglas Fir Compared with Those in Strawberry and Avocado Leaves by Means of C18-Reversed-phase Chromatography. *Plant Physiology* 1980, 66:1085-1090

Staudt G. Über Fragen der phylogenetischen Entwicklung einiger Arten der Gattung *Fragaria*. *Der Züchter* 1951, 21(7/8): 222-232

Šavikin K, Zdunić G, Menković N, Zivković J, Cujić N, Tereščenko M, et al. Ethnobotanical study on traditional use of medicinal plants in South-Western Serbia, Zlatibor district. *Journal of ethnopharmacology* 2013, 19, 146(3): 803-810

Takács I, Szekeres A, Takács A, Rakk D, Mézes M, Polyák A, Lakatos L, Gyémánt G, Csupor D, Kovács KJ, Ferenczi S. Wild strawberry, blackberry, and blueberry leaf extracts alleviate starch-induced hyperglycemia in prediabetic and diabetic mice. *Planta medica* 2020, 86: 790 – 799

Tunón H, Olavsdotter C, Bohlin L. Evaluation of anti-inflammatory activity of some Swedish medicinal plants. Inhibition of prostaglandin biosynthesis and PAF-induced exocytosis. *Journal of ethnopharmacology* 1995, 48(2): 61-76

Tuttolomondo T, Licata M, Leto C, Gargano ML, Venturella G, La Bella S. Plant genetic resources and traditional knowledge on medicinal use of wild shrub and herbaceous plant species in the Etna Regional Park (Eastern Sicily, Italy). *Journal of ethnopharmacology* 2014, 155: 1362-1381

van Wyk B-E, Wink M. Medicinal plants of the world: an illustrated scientific guide to important medicinal plants and their uses. Timber Press, Portland 2004

van Wyk B-E, Wink M. *Fragaria vesca*. In: Phytomedicines, Herbal Drugs. The University of Chicago Press, Chicago, London 2014

Vikas L, Jurca T, Marian E, Mureşan M. Formulation and characterization of extractive preparations of Fragariae herba. Evaluation of the diuretic effect. Analele Universitati din Oradea 2015; Vol. XIV B, Fasc: Ecotoxicologie, Zootechnie si Tehnologii de Industrie Alimntara, pp. 523-528

Wichtl M, Bisset NG, editors. Fragariae folium–Wild strawberry leaf. In: Herbal Drugs and Phyto-pharmaceuticals. English translation by NG Bisset, CRC, Stuttgart 1994, 206-207

Wichtl M. (Ed.) *Herbal drugs and phytopharmaceuticals: A handbook for practice on a scientific basis*. Transl. by Brinckmann JA and Lindenmayer MP. 4th ed. CRC Press, Boca Raton, London, New York, Washington DC 2004. Monograph Fragariae folium–Strawberry leaf, author Frohne D, pp. 220-221

Wilkes S, Glasl H. Isolation, characterization, and systematic significance of 2-pyrone-4,6-dicarboxylic acid in Rosaceae. *Phytochemistry* 2001, 58:441–449

Wren RC. *Potter's New Cyclopaedia of Botanical Drugs and Preparations*. Health Science Press, Saffron Walden 1975

Wurzer W, editor. *Die grosse Enzyklopädie der Heilpflanzen: Ihre Anwendung und ihre natürliche Heilkraft Gebundene Ausgabe*. Neuer Kaiser Verlag, Klagenfurt 1994

Yildirim AB, Turker AU. Effects of regeneration enhancers on micropropagation of *Fragaria vesca* L. and phenolic content comparison of field-grown and in vitro-grown plant materials by liquid chromatography-electrospray tandem mass spectrometry (LC–ESI-MS/MS). *Scientia Horticulturae* 2014, 169:169-178

Zhang L, Ma Q, Zhou Y. Strawberry Leaf Extract Treatment Alleviates Cognitive Impairment by Activating Nrf2/HO-1 Signaling in Rats With Streptozotocin-Induced Diabetes. *Frontiers in aging neuroscience* (Sec. Neuroinflammation and Neuropathy) 2020, 12, Art. 201.https://doi.org/10.3389/fnagi.2020.00201

Zlatković B, Bogosavljević S, Radivojević A, Pavlović M. Traditional use of the native medicinal plant resource of Mt. Rtanj (Eastern Serbia): ethnobotanical evaluation and comparison. *Journal of ethnopharmacology* 2014a, 151:704-713

Zlatković B, Bogosavljević S. Taxonomic and pharmacological valorization of the medicinal flora in Svrljiski Timok gorge (Eastern Serbia). *Facta Universitatis, Series: Medicine and Biology* 2014b, 16: 76-86

Zuidmeer L, Salentijn E, Rivas MF, Mancebo EG, Asero R, Matos CI, Pelgrom KTB, Gilissen LJWJ, van Ree R. The role of profilin and lipid transfer protein in strawberry allergy in the Mediterranean area. *Clinical & Experimental Allergy* 2006, 36, 666–675

References used but not cited in the Assessment Report

Blaschek W. (Ed.) Wichtl-Teedrogen und Phytopharmaka. Ein Handbuch fur die Praxis. 6. Aufl. Wissenschaftliche Verlagsgesellschaft Stuttgart 2016. Monograph Fragariae folium – Erdbeerblatter, authors Blaschek W, Frohne D, Loew D, pp. 262-263

Dhole AR, Mohite SK, Magdum CS. Pharmacognostical evaluation of *Fragaria vesca* Linn leaf. *International Journal of Phytopharmacy* 2014, 4(4):117-119

Dias MI, Barros L, Oliveira MBPP, Santos-Buelga C, Ferreira ICFR. Individual phenolic profile and antioxidant activity of vegetative parts cultivated or wild growing *Fragaria vesca* L. *Planta Medica* 2014, 80 – P2B26

El-Mesallamy MHM, Hussein SAM, El.Gerby M. Phenolic composition and biological activities of methanolic extract of strawberry leaves (*Fragaria ananassa*). *Natural Products: An Indian Journal* 2013, 9(6):251-257

Frerichs G, Arend, G, Zörnig H, editors. *Hagers Handbuch der Pharmazeutischen Praxis Für Apotheker, Arzneimittelhersteller Drogisten, Ärzte und Medizinalbeamte*. Erster Band. Fragaria. Julius Springer Verlag, Berlin 1938, 1316-317

Gobiec K, Konieczny Z. Receptariusz Zielarski. Folium Fragariae. Wydawnictwo Przemysłu Lekkiego i Spożywczego Herbapol, Warszawa 1963, pp. 133 (in Polish)

Gruenwald J, Brendler T, Jaenicke C, editors. *PDR for Herbal Medicines* 4th ed. Strawberry. *Fragaria vesca*. Medical Economics Co., Inc., Montvale 2000

Hensel W. *Medicinal Plants of Britain and Europe*. Wild Strawberry (*Fragaria vesca*). A&C Black Publishers, London 2008, 98

Hiller K, Melzig MF. Lexikon der Arzneipflanzen und Drogen. Spektrum Akademischer Verlag, Heidelberg, Berlin 2003

Ivanov I, Petkova N, Pavlov A, Denev P. Optimization of procyanidine extraction process from *Fragaria vesca* L. leaves*. Scientific Bulletin Series F Biotechnologies* 2014, 18:115-118 (Abstract)

Labokas J., Bagdonaitë E. Phenotypic diversity of *Fragaria vesca* and *F. viridis* in Lithuania. *Biologija* 2005, 3:19–22

Liberal JMT. *Fragaria vesca leaf as a source of bioactive phytochemicals: a focus on ellagitannins and their human microflora metabolites*. PhD Thesis, Coimbra 2016, 221 pp. Available at: https://estudogeral.sib.uc.pt/handle/10316/30182

Muszyński J. Herba Fragariae (Poziomka). Ziołolecznictwo i Leki Roślinne (Fytoterapia). Polska Agencja Wydawnicza, Łódź, 1946, 158 (in Polish)

Ożarowski A, Jaroniewski W. *Fragaria vesca* L. In: Rośliny Lecznicze. Publishing Institute of Trade Unions, Warsaw 1987, 309-311

Rácz G, Rácz-Kotilla E, Laza A. Gyogynövényismeret. *Fragaria vesca* L. Ceres Könyvkiado, Bukarest 1984, 157

Turova A.D., Sapozhnikova E.N. *Fragaria vesca* L. (in) Lekarstvennyje rastenija SSSR i ich primenenije. Medicina, Moskva 1984, 244-245 (in Russian)

Urzędowy Spis Leków 1963 r. Ministerstwo Zdrowia i Opieki Społecznej. Państwowy Zakład Wydawnictw Lekarskich. Warszawa 1962 (in Polish)

Wagner H. Arzneidrogen und ihre Inhaltsstoffe. Pharmazeutische Biologie, Bd.2. Stuttgart 1999

Watson RR, Preedy VR. *Fragaria vesca* (Wild Strawberry). In: Botanical Medicine in Clinical Practice. CABI International, Cambridge 2008, 425

Zanetti-Ripamonti G. Piante Medicinali Nostre. Fragola (*Fragaria vesca* L.). Istituto Editoriale Ticinese, Lugano-Belinzona 1940, pp. 70-71 (in Italian)