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List of references supporting the assessment of *Ribes nigrum* L., folium

Draft – Revision 2

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.

Barnes J, Andersson L, Phillipson D. Herbal Medicines. 3rd ed. Published by Pharmaceutical Press, London 2007, 90-97

Bréger G, André A, Cotte C, Hammaidi A, Amérand A, Faivre C, *et al.* Anti-Obesity effects evaluation of a blackcurrant leaf standardized hydro-alcoholic extract in Wistar rat subjected to a high-fat diet. *Biology (Basel)* 2024, 13(12):999

British Pharmacopoeia. Vol 4. The Stationary Office, London 2015, 109-111

Chanh PH, Ifansyah N, Chahine R, Mounayar-Chalfoun A, Gleye J, Moulis C. Comparative effects of total flavonoids extracted from *Ribes nigrum* leaves, rutin and isoquercitin on biosynthesis and release of prostaglandins in the ex vivo rabbit heart. *Prostaglandins Leukot Med* 1986, 22:295-300

Declume C. Anti-inflammatory evaluation of a hydroalcoholic extract of blackcurrant leaves (*Ribes nigrum*). *J. Ethnopharmacol* 1989, 27(1-2):91-98

Dobson G. Leaf lipids of *Ribes nigrum*: a plant containing 16:3, α-18:3, γ-18:3 and 18:4 fatty acids. *Biochem Soc Trans* 2000; 28(6):583-586

Ehrhardt C, Dudek SE, Holzberg M, Urban S, Hrinčius ER, Haasbach E, *et al.* A plant extract of *Ribes nigrum* folium possesses anti-influenza virus activity *in vitro* and *in vivo* by preventing virus entry to host cells. *PLoS One* 2013, 23;8(5):e63657

European Pharmacopoeia 11th ed. Blackcurrant leaf – *Ribes nigri* folium. Council of Europe. 07/2013:2528

Gaknick S, Veberic R, Hudina M, Mikulic-Petkovsek M. Changes in chemical composition of red and black currant fruits and leaves during berry ripening. *Int J Fruit Sci* 2024, 24(1):73-84

Garbacki N, Angenot L, Bassleer C, Damas J, Tits M. Effects of prodelphinidins isolated from *Ribes nigrum* on chondrocyte metabolism and COX activity. *Naunyn-Schmiedeberg's Arch Pharmacol* 2002, 365(6):434-441



- Garbacki N, Tits M, Angenot L, Damas J. Inhibitory effects of proanthocyanidines from *Ribes nigrum* leaves on carrageenin acute inflammatory reactions induced in rats. *BMC Pharmacol* 2004, 4:25
- Garbacki N, Kinet M, Nussgens B, Desmecht D, Damas J. Proanthocyanidins, from *Ribes nigrum* leaves, reduce endothelial adhesion molecules ICAM-I and VCAM-I. *J Inflamm (Lond)* 2005, 2:9
- Ginovyan M, Bartoszek A, Koss-Mikołajczyk I, Kusznierevich B, Andreoletti P, Cherkaoui-Malki M, et al. Growth inhibition of cultured cancer cells by *Ribes nigrum* leaf extract. *AIMS Biophys* 2022, 9(3):282-293
- Gruenewald J, Brendler T, Jaenicke C, editors. PDR for herbal medicines. 2nd ed. Thomson PDR, Montvale 2000, 94-96
- Haasbach E, Hartmayer C, Hettler A, Samecka A, Wulle U, Ehrhardt C, et al. Antiviral activity of Ladanina067, an extract from wild blackcurrant leaves against influenza A virus *in vitro* and *in vivo*. *Front Microbiol* 2014, 5: 171
- Hänsel R, Keller K, Rimpler H, Schneider G. *Ribis nigri folium*. Hagers Handbuch der Pharmazeutischen Praxis: 5th ed. Drogen P-Z. Springer Verlag, Berlin 1994, 466-472
- Kendir G, Süntar I, Çeribaşı AO, Köroğlu A. Activity evaluation on *Ribes* species, traditionally used to speed up healing of wounds: With special focus on *Ribes nigrum*. *J Ethnopharmacol* 2019, 237:141-148
- Lasserre B, Kaiser R, Chanh H, Ifansyah N, Gleye J, Moulis C. Effects of rats of aqueous extracts of plants used in folk medicine as antihypertensive agents. *Naturwissenschaften* 1983, 70(2):95-96
- Luzak B, Boncler M, Rywaniak J, Dudzinska D, Rozalski M, Krajewska U, et al. Extract from *Ribes nigrum* leaves *in vitro* activates nitric oxide synthase (eNOS) and increases CD39 expression in human endothelial cells. *J Physiol Biochem* 2014, 70(4):1007-1019
- Magnavacca A, Piazza S, Cammisa A, Fumagalli M, Martinelli G, Giavarini F, et al. *Ribes nigrum* leaf extract preferentially inhibits IFN- γ -mediated inflammation in HaCaT keratinocytes. *Molecules* 2021, 26(10):3044
- Mongold JJ, Susplugas P, Taillade C, Serrano JJ. Anti-inflammatory activity of *Ribes nigrum* leaf extracts in rats. *Plantes Méd Phytothér* 1993, 26:109-116 (only abstract available)
- Nour V, Trandafir I, Cosmulescu S. Antioxidant capacity, phenolic compounds and minerals content of blackcurrant (*Ribes nigrum* L.) leaves as influenced by harvesting date and extraction method. *Ind Crop Prod* 2014, 53:133-139
- Pozdnyakov DI, Pozdnyakova AE, Adzhiahmetova SL, Chervonnaya NM, Zolotych DS, Lyakhova NS, et al. Antihypoxic and anti-ischemic properties of the North Caucasus flora plant extracts. *B Latinoam Caribe Pl* 2019, 18(5):504-517
- Rácz-Kotilla E, Rácz G. Salidiuretische und hypotensive Wirkung der Auszüge von *Ribes* Blättern. *Planta Med* 1977, 32(6):110-114
- Staszowska-Karkut M, Materska M. Phenolic composition, mineral content, and beneficial bioactivities of leaf extracts from black currant (*Ribes nigrum* L.), raspberry (*Rubus idaeus*), and aronia (*Aronia melanocarpa*). *Nutrients* 2020, 12(2):463
- Szentmihályi K, Kéry A, Then M, Lakatos B, Sándor Z, Vinkler P. Potassium-sodium ratio for the characterization of medical plant extracts with diuretic activity. *Phytother Res* 1998, 12:163-166
- Tabart J, Franck T, Kevers C, Pincemail J, Serteyn D, Defraigne JO, et al. Antioxidant and anti-inflammatory activities of *Ribes nigrum* extracts. *Food Chem* 2012, 131(4):1116-1122

- Tits M, Angenot L, Damas J, Dierckxsens Y, Poukens P. Anti-inflammatory prodelphinidins from blackcurrant (*Ribes nigrum*) leaves. *Planta Med* 1991; 57 Supplement Issue 2: A 134
- Tits M, Angenot L, Poukens P, Warin R, Dierckxsens Y. Prodelphinidines from *Ribes nigrum*. *Phytochemistry* 1992a, 31(3):971-973
- Tits M, Poukens P, Angenot L, Dierckxsens Y. Thin-layer chromatographic analysis of proanthocyanidins from *Ribes nigrum* leaves. *J Pharmaceut Biomed Anal* 1992b, 10(10-12):1097-1100
- Wichtl M. Herbal Drugs and Phytopharmaceuticals. 3rd ed. *Ribis nigri folium*. Medpharm Scientific Publishers GmbH, Stuttgart 1994, 421-423
- Williams AR, Ropiak HM, Fryganas C, Desrues O, Mueller-Harvey I, Thamsborg SM. Assessment of the anthelmintic activity of medicinal plant extracts and purified condensed tannins against free-living and parasitic stages of *Oesophagostomum dentatum*. *Parasit Vectors* 2014, 7:1-12
- Wyk BE van, Wink M. Medicinal plants of the world. An illustrated scientific guide to important medicinal plants and their uses. 1st ed. Timber Press, Inc., Portland, Oregon 2005, 273