



Plant of the Month

By Patrick Fast, Alchemist Labs, Jan. 2021

History

Elder seeds found in Switzerland were dated to 2000B.C.E., suggesting that they were cultivated at that time. Pliny the Elder and Dioscorides both noted the medicinal qualities of Elderberry.

Use/Benefit

Elderberries contain natural substances called flavonoids. They seem to help reduce swelling, fight inflammation, and boost the immune system.

Limited studies have found that elderberry eases flu symptoms like fever, headache, sore throat, fatigue, cough, and body aches. Common forms of administration include syrup and lozenges, often paired with Zinc. The anthocyanin profile of Elderberry includes: cyanidin-3-O-sambubioside-5-O-glucoside, cyanidin-3-O-sambubioside, and cyanidin-3-O-glucoside.

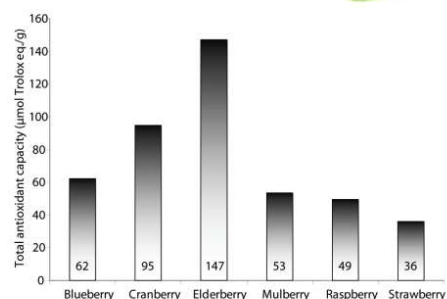


Fig. 3. Total antioxidant capacity of various small fruits as measured using the ORAC method. [ORAC] = Oxygen Radical absorbance Capacity. In this example, elderberry is the American subspecies. Adapted from: (Wu et al. 2004a).

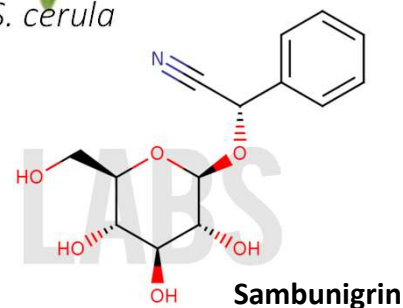
Sambucus nigra

Elderberry Fruit

...and *S. canadensis*, and *S. cerula*

Pharmacology/Toxicity

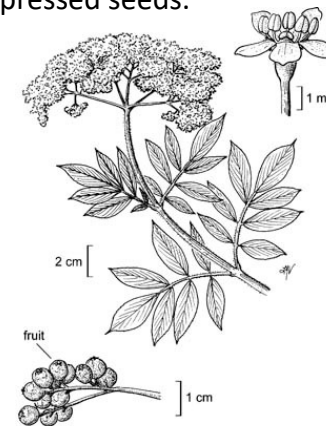
All plant parts except for flowers and ripe fruits contain the cyanogenic glycoside Sambunigrin, highlighting the importance of safe use of herbal preparations. Not recommended for children or women who are pregnant or breastfeeding.



Botanical Characteristics

Deciduous shrub or more rarely a small tree to 10 m, branches often arching. Leaves pinnate; leaflets, ovate, ovate-lanceolate or ovate-elliptic; acuminate; serrate.

Inflorescence flat-topped, 10–20 cm diameter, corymbose with 5 primary rays. Flowers 5-merous, actinomorphic. Fruit a drupe, globose, black, rarely greenish, containing 3–5 compressed seeds.



Sambucus nigra subsp. *caerulea*
Adoxaceae
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References

1. Charlebois, D. "Elderberry as a Medicinal Plant". Reprinted from: Issues in new crops and new uses. 2007. J. Janick and A. Whipkey (eds.). ASHS Press, Alexandria VA. Accessed online: <https://www.hort.purdue.edu/newcrop/ncnu07/pdfs/charlebois284-292.pdf> 12/04/20.
2. Atkinson, M. and Atkinson E. "*Sambucus nigra* L." Biological Flora of the British Isles, List. Br. Vasc. Pl. (1958 No. 487.2. Journal of Ecology 2002; **90**, 895-923. © 2002 British Ecological Society.
3. Charles D. Bell 2012, *Sambucus nigra* subsp. *caerulea*, in Jepson Flora Project (eds.) Jepson eFlora, https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=80587, accessed on December 04, 2020.
4. "Elderberry". Nourish by WebMD. Accessed online: <https://www.webmd.com/diet/supplement-guide-elderberry> 12/04/20.
5. "Wild Elderberry". <https://www.americanmeadows.com/perennials/elderberry/wild-elderberry>
6. "Elderberry" NIH: National Center for Complementary and Integrative Health. Accessed online: <https://www.nccih.nih.gov/health/elderberry> 12/04/20.
7. "Elderberry: An herb Society of America Essential Guide". The Herb Society of America. Accessed online: https://www.herbsociety.org/file_download/inline/a54e481a-e368-4414-af68-2e3d42bc0bec 12/04/20.
8. "Elderberry's Exciting History". Health Hutt. Accessed online: <http://thehealthhutt.com/elderberrys-exciting-history/> 12/04/20.