

Anti-microbial Properties of Black Walnut

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The juice from macerated Black Walnut (*Juglans nigra*) shells has been used for many years, both as a hair and skin dyes and as folk medicine. Black Walnut has been used to treat topical fungal, bacterial and viral infections and has been shown to have an anti-microbial effect.

There are many scientific citations that document the powerful antimicrobial properties of Black Walnut against many pathogens. Some of those papers are cited below:

References:

1. Antimicrobial effects of plant extracts on *Streptococcus mutans*, *Candida albicans*, *Trichophyton rubrum* and other micro-organisms.
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2. On the effect of plant extracts against fireblight (*Erwinia amylovora*)
Mosch, J.; Klingauf, F.; Zeller, W.; *Acta Horticulturae*; **273**; 1990; PP 355-361
3. In vitro studies of the efficacy of plant extracts against the fireblight pathogen, *Erwinia amylovora* (Burrill) Winslow et al
Mosch, J.; Klingauf, F.; *Nachrichtenblatt des Deutschen Pflanzenschutzdienstes*; **41(8-9)**; 1989; PP 121-123
4. Antimicrobial activity of juglone
Clark, A. M.; Jurgens, T. M.; Hufford, C. D.; *Phytotherapy Research*; **4(1)**; 1990; PP 11-14
5. Cytotoxic action of juglone and plumbagin: a mechanistic study using HaCaT keratinocytes
Inbaraj, J. J.; Chignell, C. F.; *Chemical Research in Toxicology*; **17(1)**; January 2004; PP 55-62

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