

# Antimicrobial and cytotoxic activities of endophytic

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**What are the antimicrobial activities of herbs?** Herbs and HMFs bring forth antibacterial activities by damaging cell membranes and walls, inhibiting nucleic acid and protein synthesis, and increasing intracellular osmotic pressure.

**What is antimicrobial activity of plants?** MAJOR GROUPS OF ANTIMICROBIAL COMPOUNDS FROM PLANTS Most are secondary metabolites, of which at least 12,000 have been isolated, a number estimated to be less than 10% of the total (195). In many cases, these substances serve as plant defense mechanisms against predation by microorganisms, insects, and herbivores.

**What are the enzymatic activities of endophytic fungi?** The endophytic fungi produce some of the enzymes such as pectinases, cellulases, amylases, laccases, proteases, and lipases as one of the resistant mechanisms against pathogenic organisms and also for gaining nutrients from the host (Vasundhara et al.

**What is the biological activity of endophytes?** The endophytic fungus is have rich source of secondary metabolites which act as biological active agent in the higher plants. The fungal derivatives play vital part in human life and their compounds are the source of drug for cancer, microbial and viral diseases.

**What is the strongest antimicrobial herb?** Clove. Clove (*Syzygium aromaticum*), from the Myrtaceae family, is one of the most effective antimicrobial and antioxidant herbs.

**What is an example of an antimicrobial activity?** Antimicrobial activity has been demonstrated in vitro for several herb and spice extracts and essential oils from

thyme, oregano, parsley, cilantro, and cinnamon. Growth of several bacteria strains has been shown to be inhibited by various concentrations of these culinary herb and spice extracts in the culture medium.

**What are the 3 types of antimicrobial?** The main classes of antimicrobial agents are disinfectants (non-selective agents, such as bleach), which kill a wide range of microbes on non-living surfaces to prevent the spread of illness, antiseptics (which are applied to living tissue and help reduce infection during surgery), and antibiotics (which destroy ...

**How to check antimicrobial activity of plant extract?** A variety of laboratory methods can be used to evaluate or screen the in vitro antimicrobial activity of an extract or a pure compound. The most known and basic methods are the disk-diffusion and broth or agar dilution methods. Other methods are used especially for antifungal testing, such as poisoned food technique.

**How do you identify antimicrobial activity?**

**What is the antimicrobial activity of endophytic fungi?** Antibacterial activity of endophytic fungi isolated from leaves of *Indigofera suffruticosa*. The strains *N. sphaerica* (URM-6060) and *Pestalotiopsis maculans* (URM-6061) showed the best action, and no significant differences ( $p > 0.05$ ) were observed between their IDZ against most of the tested pathogens (except to *E.*

**Can endophytic fungi be pathogenic?** During the latent phase, endophytic fungi can become pathogenic, altering host physiology and rendering it prone to infection. This transition may be induced by biotic (host plant resistance level) and abiotic factors (pH, temperature, or humidity)<sup>13</sup>.

**What is anticancer activity of endophytic fungi?** Numerous evidence indicates that bioactive compounds derived from endophytic fungi exhibit anti-cancer properties through mechanisms such as disrupting the microtubule network. This disruption results in elevated levels of Bax and Bcl-2 proteins, leading to cell cycle arrest at the G2-M phase.

**Do endophytes produce toxins?** Endophyte is a fungus that lives within a plant (endo = inside + phyte = plant). The relationship between a grass and its endophyte

is symbiotic; that is, they both benefit. The grass provides nutrients, and the endophyte produces toxins that fend off insects, diseases, and grazing animals.

**What are the most common endophytes?** Both fungi and bacteria are the most common microbes existing as endophytes. It seems that other microbial forms, e.g., mycoplasmas and archaeobacteria, most certainly exist in plants as endophytes, but no evidence for them has yet been presented. The most frequently isolated endophytes are the fungi.

**What is antifungal activity of endophytes?** Volatile antifungal activity of endophytic isolate *lunata* TML9 inhibited the growth of fungal pathogens drastically up to 89% (Table 1). A six-day exposure causes the complete cessation of pathogens' growth, but an exposure of four days can restrict the pathogen's growth up to 89%.

**What herb kills E. coli?** Turmeric, cinnamon and carom had the potency of inhibiting the pathogenic *E. coli* which maybe suggestive of its use in calf diets as prophylaxis against diarrhoea.

**What herb works like amoxicillin?**

**What plants have high antimicrobial activity?** Methanol extracts of *Oxalis corniculata*, *Artemisia vulgaris*, *Cinnamomum tamala*, and *Ageratina adenophora* exhibited antimicrobial activities against *Escherichia coli*, *Salmonella Typhi*, *Klebsiella pneumoniae*, *Staphylococcus aureus*, and *Citrobacter koseri* [41] Also, hydromethanolic extracts of *Berberis vulgaris*, *Cistus* ...

**What foods have antimicrobial properties?**

**What are the 4 antimicrobial drugs?**

**Is antimicrobial the same as antibacterial?** Antibacterial: A drug, chemical or other substance that kills bacteria (bactericidal) or stops their growth (bacteriostatic). Antimicrobial: A drug, chemical or other substance that kills, inactivates or slows the growth of microbes, including bacteria, viruses, fungi and parasites.

**What is the antibacterial activity of herbal extracts?** The extracts from clove and jambolan presented the highest activities, i. e., they were able to inhibit 9 (64.2 %)

and 8 (57.1 %) types of microorganisms of interest, respectively. Moreover, they also had the highest activity rate against antibiotic resistant bacteria, which was 83.3 % (Fig, 1).

**What is the antimicrobial activity of garlic and ginger?** The garlic and ginger is popular as plants and food ingredient for flavouring and adding acidity, its juices have been reported to exhibit antibacterial activity against wide range of microbes including *K. pneumoniae*, *Shigella flexnerii*, *E. coli* ATCC 25922 and *Vibrio cholerae*[21], [22].

**Do herbal antimicrobials work?** It's true that some plants and herbal remedies may have antibacterial or antiviral properties (at least in test tubes, nonhuman studies or anecdotal evidence). But that doesn't mean they're the right solution for you. And they shouldn't be used as a replacement for medical advice.

**What are the antimicrobial agents in oregano?** Chemical analysis of the oregano EO revealed the presence of several ingredients, most of which possess important antioxidant and antimicrobial properties (8). Carvacrol and thymol, the two main phenols that constitute about 78–85% of oregano EOs, are principally responsible for the antimicrobial activity (9).

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**Which medicinal plant has high antibiotic antibacterial properties?** A general literature search from 2010 to 2020 was conducted using different databases including Science Direct, Web of Science, and PubMed. According to the literature, three medicinal plants with antibacterial activities, *Taraxacum officinale* (T. officinale), *Coptis rhizome* (C.

**What are the antimicrobial activities of natural products?** The most famous are antibiotics such as penicillins and cephalosporins. However, antimicrobial activity also has plant phenolics and alkaloids, bee honey and propolis, bacterial bacteriocins or human lysozyme and defensins, among others.

**What spices are antimicrobial effectiveness?** Antibacterial action is notably strong in vanillin, lemongrass, sage, oregano, cloves, cinnamon, garlic, parsley, coriander, and rosemary [3].

**Is garlic more antimicrobial than mint?** There is no current evidence that mint possesses antimicrobial properties despite its component, menthol, being a mild anaesthetic. On the other hand, garlic is a fairly strong natural antibacterial. The active ingredient in garlic is allicin, which interferes with lipid synthesis and RNA production in bacteria.

**What is the antimicrobial activity of onion?** Onion extract is effective in vitro against many bacteria species including *Bacillus subtilis*, *Salmonella*, and *E. coli*. Similarly, this inhibiting effect was also noted on *Staphylococcus aureus* and results showed a complete inhibition of all strains tested at a concentration of 6.5 mg/ ml.

**What is the strongest antibacterial herb?**

**What is the best homemade antibiotic?**

**How to remove bacteria from the body naturally?**

**Why take oregano oil under the tongue?** Fights strongly against fungi and prevents fungal diseases. You can also place oregano oil under your tongue to treat parasites and infections. Useful against measles, mumps, colds, and pox. It also helps stimulate the production of white blood cells which aids in fighting as the bodies main defense.

**Is oil of oregano stronger than antibiotics?** It may offer similar health benefits when used as a supplement. One mouse study found oregano essential oil to be almost as effective as antibiotics against common bacteria, though much more research is needed.

**Is Thyme an antimicrobial?** Thyme water extract possessed antimicrobial activity only against *S. aureus*. It is therefore an extract with limited or narrowed antimicrobial activity.

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