

# CYTOTOXIC EFFECT AND CHEMICAL COMPOSITION OF *INULA VISCOSA*

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**What is the chemical composition of *Inula helenium*?** Inulin (up to 40%). Volatile oil: chief components are bicyclic sesquiterpenoids (eudesmanolides), alantolactone, isoalantolactone, 11,13-dihydroisoalantolactone, and 11,13-dihydroalantolactone, being the mixture of these alantolactone derivatives also known as helenalin, or helenin, or elecampane camphor [47, 185] .

**What is the cytotoxic effect of the lichen natural extract?** As for the Caco-2 cells, cytotoxic activity of the lichen extracts was determined at a concentration of 50 µg/ml (Fig. 3). Similar to the anticancer activity results of the AGS cells, viability of the Caco-2 cells decreased with increasing concentrations.

**What is *Inula viscosa* used for?** *Inula viscosa* (IV) is a well-known medicinal perennial herb in traditional medicine. It is used for different therapeutic purposes, such as; topical anti-inflammatory, diuretic, hemostatic, antiseptic, antiphlogistic, and in the treatment of diabetes.

**What are the effects of cytotoxicity?** Whilst toxicity is a more general term for how harmful a substance is to an organism; cytotoxicity is the term for how toxic a substance is to cells. A cytotoxic compound can cause cell damage or death, either through necrosis or apoptosis.

**Is *Inula helenium* toxic?** Toxicity: This plant has been used medicinally but may have toxic effects. Toxicity can vary in a plant according to season, the plant's different parts, and its stage of growth; and plants can absorb toxic substances, such as herbicides, pesticides, and pollutants from the water, air, and soil.

**What are the effects of Inula helenium?** Available research suggests it has potent antioxidant, anti-inflammatory, and even potential anticancer properties. It also may benefit respiratory health and suppress coughing. Elecampane root (*Inula helenium*) is an herb that's used as a dietary supplement for various health conditions.

**What is the anticancer activity of lichen?** Currently, several scientists have researched the anticancer capacity of lichen extracts in conjunction with isolated lichen metabolites. Through inducing apoptosis at lethal concentrations, the acetone extract of *Flavocetraria cucullata* or even UA has induced cytotoxic effects in cancerous cells.

**Which lichen is harmful to humans?** Be careful, though, in what you use; a few people have been known to have allergic reactions to lichens, resulting in skin disorders. *Letharia vulpina* (wolf lichen), a toxic lichen that was also used for tea and dye.

**Do lichens absorb toxins?** Lichens need clean, fresh air to survive. They absorb everything through their cortex. From beneficial nutrients to harmful toxins, lichens absorb it all. They also absorb water in the air, which is why so many are found in fog belts along oceans and big lakes.

**What are the actions of Inula helenium?** The roots of the plant were traditionally used to treat lung complaints and as a diuretic. Recent in vitro experiments reported antioxidant and antimicrobial activities [63]. Other study showed that ethanol extract of *Inula helenium* L. reduces inflammatory not only in vitro but also in vivo in septic mice [64].

**How to use inula viscosa?** P 358; “ A paste for treatment for Hemorrhoids: Fresh *Inula viscosa* leaves are picked, dried and crushed, the powder is mixed in olive oil and applied to the affected part.”

**What is Inula helenium extract?** Elecampane (*Inula helenium*) is a flowering herb. The root of the plant is sometimes used to make medicine. Elecampane contains chemicals that might reduce inflammation (swelling) and kill bacteria.

**What does cytotoxic do to the body?** Cytotoxic drugs (sometimes known as antineoplastics) describe a group of medicines that contain chemicals which are

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toxic to cells, preventing their replication or growth, and so are used to treat cancer. They can also be used to treat a number of other disorders such as rheumatoid arthritis and multiple sclerosis.

### **What are common side effects of cytotoxic?**

**What is the difference between toxicity and cytotoxicity?** Evaluation of the Biological Activity of Compounds A compound is cytotoxic when it damages the substructure or function of a cell, often leading to cell death, while toxicity generally refers to the damaging effects of compounds on whole organisms.

**What are the contraindications for Inula helenium?** Contraindications: Use caution when lungs are irritated or dry as it can increase dryness and give a feeling of constriction. May cause contact dermatitis topically. Interactions: None known.

**What is Inula helenium 30 used for?** It has a marked effect on the mucous membranes and helps relieve pain in the chest and provides relief from dry cough worsened especially during the nights.

**Is Inula edible?** The genus *Inula* includes more than 100 species, being mainly found in Europe, Africa, and Asia. In some locations, *I. crithmoides* is an important constituent of the human diet. Young leaves are eaten raw or cooked and the fleshy leaves and young shoots are pickled and used as a relish in salads.

**What are the health benefits of Inula viscosa?** In folk medicine, *Inula viscosa* (Asteraceae) has been traditionally utilized for treating various ailments, including diabetes, bronchitis, diarrhea, rheumatism, and injuries.

**What are the constituents of Inula helenium?** The chemical composition of *Inula helenium* was studied and the general results showed the following. Rhizomes and roots contain inulin (up to 44%) and other polysaccharides, bitter substances, essential oil (up to 4.5%), saponins, resins, gum, mucus, a small amount of alkaloids, and helenin.

**What is the other name for Inula helenium?** *Inula helenium*, commonly called elecampane, is a rhizomatous, sunflower-like composite of the aster family that is native to Europe and northern Asia, but has naturalized in fields, clearings, disturbed

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sites, roadsides and waste places in parts of eastern North America from Nova Scotia to Minnesota south to North ...

**What plant has anticancer activity?** One family species is *Citrullus colocynthis* (L.), which has a high concentration of many active secondary chemical metabolites. Various *C. colocynthis* plant extracts showed cytotoxicity against some cancer cells.

**Which fungi has anticancer properties?**

**What toxins are in lichens?** Cyanobacteria are often found in lichen partnerships. In 2004, Finnish scientists led by Kaarina Sivonen found that the most common of these species – a bacterium called *Nostoc* – produces microcystins.

**What eats lichen?** Bristletails, barklice, katydids, grasshoppers, webspinners, butterflies, moths, moth larvae, lacewing larvae, mites, spiders, snails, slugs, and many beetles live on, camouflage themselves as, or eat lichens.

**Is lichen a mold or fungus?** Lichens are a complex life form that is a symbiotic partnership of two separate organisms, a fungus and an alga. The dominant partner is the fungus, which gives the lichen the majority of its characteristics, from its thallus shape to its fruiting bodies.

**Is lichen an Antibacterial?** The antibacterial activity of four ethanolic extracts of lichens was reported toward Gram-negative and Gram-positive pathogens [16,17], and lichen active compounds were found to be also effective against ARB (antibiotic-resistant bacteria) strains, such as *Enterococcus faecalis* and *Staphylococcus aureus* [18,19,20,21].

**What is the chemical composition of mullein?** This medicinal herb contains various chemical constituents like saponins, iridoid and phenylethanoid glycosides, flavonoids, vitamin C and minerals. It is famous in various communities worldwide for the treatment of various disorders of both humans and animals ailments.

**What are the chemical constituents of *Inula racemosa*?** Chemical constituents : The rootstock and roots contain inulin, alantolactone,  $\beta$ -sitosterol, isoalantolactone, dihydroalantolactone, and its glucosides. Four sesquiterpene lactones have also been isolated from *Inula* sp.

**What is the chemical composition of anise hyssop?** Three groups of compounds were identified in the essential oil: monoterpenes (sylvestrene and 1-octen-3-ol acetate), phenylpropenes (methyl chavicol, eugenol, and methyl isoeugenol), and sesquiterpenes ( $\beta$ -caryophyllene, spathulenol, and caryophyllene oxide) (Fig. 1).

**What is the chemical composition of verbena?** The main components of *Verbena officinalis* L. are iridoids, phenylpropanoids, flavonoids, luteolin and terpenoids (Calvo, San Julián, & Fernández, 1997; Deepak & Handa, 2000; Bilia et al., 2008). From the nutritional point of view, other valuable components in herbs are also contained in considerable amounts.

**Is mullein leaf a narcotic?** \* Mullein leaves have been used for various medicinal purposes, such as curing dysentery, coughs, and gout, and as a narcotic to induce sleep. \* The word "mullein" comes from the Middle English *moleyne* and the Old French *moleine*, and originally from the Latin *mollis*, meaning 'soft' and referring to the leaves.

**Does mullein affect your lungs?** Mullein has been used traditionally as a remedy for the respiratory tract, including bronchitis. It works as an expectorant, meaning it helps expel mucus. More. Expectorant herbs help loosen bronchial secretions and make elimination of mucus easier.

**Can mullein affect kidneys?** *D. Verbascum thapsus*, Scrophulariaceae. Mullein, Mule tail, or Kidney medicine is traditionally used as a root and flower tea for kidney dysfunction.

**What is the medicinal use of Inula racemosa?** *racemosa* root is used for treating rheumatic pains, liver problems, gonorrhoea, asthma, cardiac disorders, obesity, skin diseases, inflammation, anorexia, bronchitis, anaemia, diabetes, wounds, and ulcers (Shishodia et al.

**What is another name for black cohosh?** Black cohosh (*Actaea racemosa* or *Cimicifuga racemosa*), a member of the buttercup family, is a perennial plant native to North America. Other, mostly historical, names for this herb include snakeroot, black bugbane, rattleweed, macrotys, and rheumatism weed [1,2].

**What is the common name for *Inula graveolens*?** *Dittrichia graveolens* (L.) Greuter, (common name Stinkwort syn. *Inula graveolens* L. Desf.), is a Mediterranean native plant.

**What is the chemical composition of hyssop?** The main components of hyssop essential oil were isopinocampone (22.53–28.74%), pinocampone (11.41–17.99%),  $\alpha$ -pinene (6.69–12.01%), elemol (5.02–7.57%), germacrene D (3.14–6.98%), and bicyclogermacrene (2.55–4.36%) [37]. Garg et al.

**How aggressive is anise hyssop?** Unlike other mints, anise hyssop does not spread aggressively. It does reseed prolifically but unwanted seedlings can be easily pulled.

**What are the side effects of anise hyssop?** As with many kinds of herbs, some people experience an upset stomach, bloating, or anxiety. If you experience any of these symptoms, you should consider stopping or reducing your hyssop consumption. Hyssop is in the same family as plants like mint, lemon balm, and catnip.

**Is verbena a stimulant?** Verbena or Lemon Stalk is an excellent digestive stimulant useful in all kinds of digestive upsets and for congestion of the liver. Regular massage with Verbena or Lemon Stalk can help to reduce stress levels and anxiety.

**What does verbena do to humans?** Vervain is a popular remedy due to its multiple plant-beneficial compounds. Some of its benefits include antitumor effects, nerve cell protection, anxiety- and convulsion-reducing properties, and antimicrobial activity.

**Is verbena officinalis toxic?** When taken by mouth: Verbena is **LIKELY SAFE** for most people when taken by mouth in food amounts. There isn't enough reliable information to know if verbena is safe when used in medicinal amounts.

### **Silhouette Super Hold: Professional-Grade Hairspray for Flawless Styling**

Professional hair products offer superior performance and durability that home solutions often lack. Silhouette Super Hold from Schwarzkopf Professional is one such product, renowned for its exceptional hold and styling capabilities. In this article, we delve into common questions and answers about this exceptional

hairspray, helping you understand its benefits and usage.

**Q: What is Silhouette Super Hold?** A: Silhouette Super Hold is a professional-grade hairspray designed to provide an extra-firm hold without compromising hair's natural movement. It offers long-lasting hold, ensuring your style stays in place throughout the day, no matter the conditions.

**Q: What are the key benefits of using Silhouette Super Hold?** A: The primary benefit of Silhouette Super Hold is its exceptional hold, which allows you to create intricate, voluminous, and long-lasting hairstyles. It also repels humidity, preventing frizz and ensuring your style remains flawless in humid environments. Additionally, it protects hair from heat damage during styling.

**Q: How should I use Silhouette Super Hold?** A: To achieve the best results with Silhouette Super Hold, follow these steps:

1. Spray the hairspray evenly onto dry hair from a distance of 20-30 centimeters.
2. Focus on the areas where you want extra hold, such as roots or flyaways.
3. Allow the hairspray to dry completely before touching or brushing your hair.

**Q: Is Silhouette Super Hold suitable for all hair types?** A: Yes, Silhouette Super Hold is suitable for all hair types. However, if you have fine or delicate hair, you may prefer to use it sparingly to avoid weighing it down.

**Q: Where can I purchase Silhouette Super Hold?** A: Silhouette Super Hold is available at professional hair salons and online retailers that specialize in hair care products. Look for the distinctive black bottle with a metallic blue cap to ensure you're getting the genuine product.

## **Writing GNOME Applications: Questions and Answers**

**1. What is GNOME?** GNOME is a free and open-source desktop environment that provides a graphical user interface for Linux operating systems. It is one of the most popular desktop environments, and is known for its clean and user-friendly design.

**2. What are GNOME applications?** GNOME applications are software programs that are specifically designed for GNOME. They are typically written in C++ and use the GTK+ toolkit. GNOME applications are typically well-integrated with the GNOME

desktop environment, and provide a consistent user experience.

**3. How do I write a GNOME application?** To write a GNOME application, you will need to be familiar with C++ and GTK+. You can find tutorials and documentation on the GNOME website. Once you have a basic understanding of GTK+, you can start writing your application.

**4. What are some tips for writing GNOME applications?** Here are some tips for writing GNOME applications:

- Use the GTK+ documentation to learn about the GTK+ API.
- Use the GNOME HIG (Human Interface Guidelines) to ensure that your application follows the GNOME design guidelines.
- Use the GNOME Builder IDE to develop your application.
- Test your application thoroughly to ensure that it is bug-free.

**5. Where can I find more information about writing GNOME applications?** There are many resources available to help you learn how to write GNOME applications. The GNOME website has a wealth of documentation and tutorials. You can also find helpful information on the GNOME wiki and the GNOME forums.

**Does anyone still use Turbo Pascal?** It was released in 1982 and has since been replaced by Borland Delphi. Turbo Pascal is still used today, mostly in educational settings, to teach programming fundamentals. Delphi: Delphi is a visual programming language based on Object Pascal and Borland's extended version of Turbo Pascal.

**Does Turbo C++ support graphics?** Turbo C++ graphic functions have two categories :Text mode graphic functions and graphic mode functions. Here we are dealing with graphic mode function.so just forget about text mode function right now. To switch from text mode to graphic mode,we have function called as " initgraph " .

**Is Turbo Pascal still available?** Turbo Pascal was superseded for the Windows platform by Delphi; the Delphi compiler can produce console programs and graphical user interface (GUI) applications, so that using Turbo and Borland Pascal became unnecessary.



**Is the Pascal programming language still used?** Over the years, Object Pascal became the basis of the Delphi system for Microsoft Windows, which is still used for developing Windows applications, and can cross-compile code to other systems. Free Pascal is an open source, cross-platform alternative with its own graphical IDE called Lazarus.

**Is Pascal a dying language?** Heading for Retirement: Top Dying Programming Languages in 2024. Our list includes five programming languages that are reaching the end of their era: Objective-C, Pascal, Perl, COBOL, and Java.

**Is Pascal still worth learning?** While not as widely used in the professional software development world as languages like Python, Java, or C++, Pascal still holds some relevance in specific areas: FREE Preparation: Open Google, search for " Computer MCQTUBE " and visit mcqtube website for all the practice mock tests on Computer exam for free.

**Which is better Turbo C++ or Dev C++?** Which IDE is better to C++ program, Turbo or Dev-C? If your only choice is between these two, then Dev-C++ (Embarcadero version) is far better than Turbo C++. Turbo C++ is ancient and doesn't support modern C++.

**Is Turbo C++ discontinued?** Turbo C++ is a discontinued C++ compiler and integrated development environment originally from Borland.

**Is Turbo C++ good for coding?** It's over 20 years behind the current C++ standard and most codes aren't compatible with modern compilers. There isn't a single reason in the world justifying the use of Turbo C++ in the 21st century. Don't bother using it.

**Is Turbo Pascal object-oriented?** Borland added support for object-oriented programming to Turbo Pascal 5.5, which would eventually become the basis for the Object Pascal dialect used in Delphi created by Anders Hejlsberg.

**Why did the D language fail?** The lack of transparency, agility and predictability in the process of getting corrections of known flaws and errors incorporated, and the difficulty of introducing minor and major changes to the D language, is imminently described in a blog post article by a former contributor.

**Is Delphi still used today?** Delphi development is still rather popular today. It is still chosen by companies and individual developers. There is still a huge number of systems and applications that rely on Delphi. Many companies still hire Delphi developers who support their Delphi system infrastructure and code base.

**Is C++ a dying language?** They're less likely to be used for new projects, but old ones still use them. Just like how some projects still use COBOL today, C and C++ aren't going away.

**Is Python better than Pascal?** Pascal is probably as easy to program in as Python, and builds better habits. But for a real advantage look at performance and efficiency. Pascal is much faster and less resource-intensive than Python.

**Is Pascal hard to learn?** Pascal is not a difficult language, but knowing the syntax of a language is a very small part of being a programmer. Learning to code is much more difficult. However, I do not know why you want to learn Pascal. It is very rarely used in new projects.

**Is Python dead in 2024?** At the top, Python continues to cement its overall dominance, buoyed by things like popular libraries for hot fields such as AI as well as its pedagogical prominence. (For most students today, if they learn one programming language in school, it's Python.)

**Is C++ dying in 2024?** Absolutely! C++ is likely to remain in demand in 2024 and beyond. It's extensively used in various domains, including game development, system programming, high-performance applications, and even in emerging technologies like artificial intelligence.

**Is JavaScript dead in 2024?** JavaScript continues to be relevant in 2024 as it plays a pivotal role in web development, enabling the creation of dynamic and responsive web applications. It powers interactive user interfaces on 97.8% of websites and extends to server-side development, mobile app development, and emerging technologies like IoT.

**Is Perl still used in 2024?** While its popularity has declined compared to newer languages like Python, Perl remains valuable for certain specific applications, especially where its powerful text-processing capabilities are required.

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**What is the oldest programming language?** The first commercially available language was FORTRAN (FORmula TRANslation), developed in 1956 (first manual appeared in 1956, but first developed in 1954) by a team led by John Backus at IBM.

**Is Cobol still used?** Another estimates that 200 billion lines of COBOL code are still active, and that 90% of Fortune 500 companies, most notably big finance, insurance companies, airlines and retail point-of-sale systems rely on COBOL.

**Is Dev-C++ obsolete?** The official Dev-C++ hasn't been updated since 2005, and likely will never be updated since the lead developer has stated in 2006 that due to personal issues he will not be continuing development on Dev-C++. From there, there are 3 main problems that are directly caused by Dev-C++'s age. The included MinGW is obsolete.

**What is the most powerful IDE for C++?** Visual Studio Code (VS Code) is considered the best IDE for C++, developed by Microsoft as a free, open-source, and powerful code editor. It operates seamlessly on Windows, Mac, and Linux, answering the question of what is the best IDE for C++ with its Microsoft C/C++ extension for comprehensive development.

**Is Turbo C++ good for beginners?** Yes, that's true. Turbo C++ is still used even though various IDE's available in the market are faster than Turbo C++. The reason behind this is the Simplicity of Turbo C++ IDE. Turbo C++ is beginner-friendly IDE as there are no complicated functionalities like other IDE's provide.

**Why do people still use Turbo C?** C is actually one of the languages that has changed the least, and thought it may not be ideal for app development, learning it in TurboC is still a perfectly valid way to learn the fundamentals of computer science, programming, data structures, algorithms, and how memory works.

**What language is replacing C++?** Google engineer Chandler Carruth first introduced Carbon at the CppNorth conference in Toronto in July 2022. He stated that Carbon was created to be a C++ successor. The language is expected to have an experimental MVP version 0.1 in 2025 and a production-ready version 1.0 after 2027.

**Is Microsoft replacing C++?** On 12 May, it was reported in the press that Microsoft had recently revealed that it was rewriting the Windows 11 kernel based on the Rust language, partially replacing the previous C++, with the claim at the time that 36,000 lines of code had been added and boot tests passed.

**Is Turbo C obsolete?** Turbo C is a discontinued integrated development environment (IDE) and compiler for the C programming language from Borland.

**Is Delphi still used today?** Delphi development is still rather popular today. It is still chosen by companies and individual developers. There is still a huge number of systems and applications that rely on Delphi. Many companies still hire Delphi developers who support their Delphi system infrastructure and code base.

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**Is Object Pascal dead?** Through the mid-1980s, Object Pascal was the main programming language for early versions of the MacApp application framework. The language lost its place as the main development language on the Mac in 1991 with the release of the C++-based MacApp 3.0. Official support ended in 1996.

**What are the drawbacks of Turbo C?** Security Risks: As an outdated software, Turbo C may have security vulnerabilities that could be exploited by malicious actors. Since there are no active updates or patches available, these vulnerabilities may remain unaddressed, putting your system at risk if you download and use Turbo C from unreliable sources.

**Which is better Turbo C or code blocks?** yes, Code Blocks is the better environment to work instead of Turbo C and C++. Basically you get ease of accessing the tools and you feel comfortable with graphical elements of the IDE.

**Is Dev C++ better than Turbo C++?** Which IDE is better to C++ program, Turbo or Dev-C? If your only choice is between these two, then Dev-C++ (Embarcadero version) is far better than Turbo C++. Turbo C++ is ancient and doesn't support modern C++.

**Is Delphi a dying language?** How can we support you with your software project? Although Delphi is often seen as a dying programming language, it is surprising that many business solutions are still based on Delphi today.

**Is Delphi better than Python?** Python has a wide range of libraries and frameworks available, making it easier and faster to develop applications. Delphi, although has its own community, is relatively smaller and has a more limited ecosystem, which may lead to a more challenging development process.

**Is Delphi a dead programming language?** Is Delphi programming language dead? The short answer: no.

**What is replacing COBOL?** Some companies choose to convert the COBOL code to more modern programming languages, such as Python, Java, or Cobalt. But translating a procedural language such as COBOL, to an object-oriented language such as Python, Java, or Cobalt presents its own challenge.

**Does anyone use Fortran anymore?** Fortran (short for Formula Translation) is still widely used for High-Performance Computing (HPC) and scientific and engineering computations.

**Do banks still use mainframes?** Banks and financial institutions still love their mainframe applications, but it's time to evolve the relationship so it includes cloud. It's not a zero-sum game anymore. Software companies and cloud providers can provide significant value-enhancing options.

**Is Python dead in 2024?** At the top, Python continues to cement its overall dominance, buoyed by things like popular libraries for hot fields such as AI as well as its pedagogical prominence. (For most students today, if they learn one programming language in school, it's Python.)

**Is Perl dead in 2024?** Perl: The Fading Script Known for its powerful text processing capabilities, Perl's complex syntax and the emergence of more modern languages have led to a dwindling demand. As we head into 2024, investing time in Perl might yield a different return than learning more contemporary languages could offer.

**Is JavaScript dead in 2024?** JavaScript continues to be relevant in 2024 as it plays a pivotal role in web development, enabling the creation of dynamic and responsive web applications. It powers interactive user interfaces on 97.8% of websites and extends to server-side development, mobile app development, and emerging technologies like IoT.

[\*silhouette super hold schwarzkopf professional, writing gnome applications, graphics programming with turbo pascal\*](#)

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