

# EFFECT OF PULSED ELECTRIC FIELD ON LYCOPENE EXTRACTION

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**What is a pulsed electric field for extraction?** Pulsed electric field (PEF) has just been introduced as a method to stress the plant cells, which will boost the extraction process by enhancing the production of active ingredients [5]. Traditional extraction techniques typically take a long time, use a lot of solvents, and involve heating.

**What are the effects of pulsed electric field on yield extraction and quality of olive oil?** They have found that the olive oil yield can be enhanced by up to 15% with application of PEF. Moreover, the increase of the concentration of bioactive compounds such as polyphenols, phytosterols, and total tocopherols by 11.5, 9.9, and 15%, respectively, in oil extracted from PEF-treated olives can be achieved [8].

**What is the function of the pulsed electric field?** Pulsed electric field is a widely-used non-thermal process that treats liquid foods with transient high electric field (1–600  $\mu$ s and 5–50 kV/cm) to sterilize foods and inactivate enzymes (Lee, Choi, & Jun 2016). Pulsed electric field inactivates bacteria and enzyme in seconds at ambient temperature and pressure.

**What are the disadvantages of pulsed electric field extraction?** In addition, PEF also has its disadvantages which include the reversibility of the membrane changes, air bubbles making the process less effective, and the efficiency of the method depending on electric field strength and electrode gap (Joannes et al.

**What is the effect of PRF in extraction socket?** Conclusion. Within the limitations of this study, the recurrent application of C-PRF in the extraction socket could decrease the amount of ridge alteration following tooth extraction and may play a role in the bone regeneration procedures.

**Does pulsed electromagnetic field work?** There is a large body of scientific evidence that supports the use of PEMF therapy. A study published in the journal PLOS One found that PEMF therapy was an effective treatment for chronic pain. The study showed a significant decrease in pain intensity after eight weeks of treatment with PEMF devices.

**What are the limitations of pulsed electric field utilization in food industry?** During PEF treatment, various electrochemical reactions can potentially occur, which may result in chemical changes in food products, electrode corrosion, electrode fouling, and electrolysis of water.

**What is the effect of pulsed electric field on food?** Pulsed electric field not only inactivates bacteria at low temperatures, but also affects minimally the nutritional and sensory properties of the food product. PEF causes inactivation of Gram-negative and Gram-positive bacteria in a whole milk already at 50 °C (Sharma et al.

**What are the benefits of pulsed electric field food processing?** Compared with traditional thermal processing, PEF processing has remarkable advantages with low energy consumption, time-saving, and potential as a minimal processing method [1]. Furthermore, food items undergoing PEF treatment can keep their original nutritional value, flavor, color, taste and texture [2].

**Which microbes are more resistant to the effect of pulsed electric field?** Studies revealed that PEF technology enables inactivation of bacterial and yeast vegetative cells in various foods. On the contrary, bacterial spores cannot be killed by employing pulsed electric fields because spores are resistant to PEF.

**How does pef inactivate microorganisms?** Pulsed electric fields (PEFs) provide an athermal method for inactivating microorganisms by creating nanometer-sized membrane pores in microorganisms, inducing cell death when the PEF duration and intensity are sufficient such that the pores cannot reseal after the PEFs through a process referred to as irreversible ...

**What is PEF technology in food industry?** PEF treatment is a gentle method based on the inactivation of microorganisms by electroporation at a lower thermal load. One advantage of PEF treatment over thermal pasteurisation is that it can also

be used for heat-sensitive liquids or products with high viscosity.

**What are the pros and cons of PEF?** Pros of Polyethylene Furanoate (PEF): High molecular weight for food packaging, reduced hydrophilicity and oxygen permeability, improved rigidity. Cons: Decreased crystallinity with increasing intrinsic viscosity.

**What are the cons of PFR?** The main disadvantages of PFRs are the low mass transfer due to lack of mixing, In order to avoid solid stratification in PFRs, partial mixing of the inner content, using mechanical mixers or biogas blower mixers and recirculation of the effluent are suggested.

**What is pulsed electric field extraction principle?** The principles of pulsed electric field The distance between electrodes is termed as the treatment gap of the PEF chamber. The applied high voltage results in an electric field that causes microbial inactivation. After the treatment, the food is packaged aseptically and stored under refrigeration.

**What are the disadvantages of PRF?** Disadvantages of using PRF The final amount available is low because it is autologous blood [19]. The success of the PRF protocol depends directly on the handling, mainly, related to blood collection time and its transference for the centrifuge [1]. Need of using a glass-coated tube to achieve clot polymerization [40].

**What are the risks of PRF?** PRF is typically seen as safe, but it's crucial to know about possible side effects, even if they're uncommon. These could be an infection at the spot of injection, discomfort or inflammation, and in extremely rare cases, a reaction to the anticoagulant used in the making of PRF.

**Can you still get dry socket with PRF?** 2: Prevents Dry Socket After Extraction In our office, not one single case of dry socket has occurred when PRF was used in an extraction site.

**Is PEMF bad for the liver?** Results PEMF exposure could protect the liver from oxidative stress injury by decreasing MDA and GSSG level, promoting reduced GSH level, and increasing GSH-Px activity and expression in comparison with sham group.

**Does PEMF reduce inflammation?** PEMF reduces inflammation by improving blood flow in the area. Research confirms that PEMF reduces inflammation and swelling in cases of osteoarthritis and fibromyalgia as well as in postoperative patients and those with pelvic pain syndrome.

**How much does a PEMF machine cost?** PEMF Complete systems start at \$7,850. You start saving money over PEMF treatments from a wellness professional just after 4 months of regular use. PEMF devices cost less than many surgeries. Americans spend more on prescription drugs than anyone else.

**Is PRF necessary for tooth extraction?** When PRF is placed into the extraction site, the PRF protects the site from infection and enriches the area with Fibrin, Platelets, White Blood Cells and Bone Growth Factors that accelerate jaw bone healing. In Cases of very difficult removals, Natural Bone Grafts with PRF may be necessary.

**How is PRF extracted?** PRF is extracted from the patient's blood. When you decide to utilize PRF for oral surgery, a simple blood draw is performed- similar to a regular medical exam blood draw. The vial (or vials) of blood are placed in a centrifuge at a predetermined speed and for a set number of minutes.

**What is the use of pulsed extractor?** Pulsed Column Extractor is a more energy efficient way to obtain a phase dispersion. Reciprocating of plates requires less energy and has the same effect in terms of mixing patterns and uniform dispersion. The difference between the different Pulsed column lies in the plate design.

**What is the pulse extraction process?** The Pulse Extraction Process is used to obtain the maximum aroma even with very small speciality coffees such as an espresso or ristretto. The water is pressed through the ground coffee in short bursts, optimising the extraction time.

**What is Microsoft PowerPoint 2013?** PowerPoint 2013 is a presentation software that allows you to create dynamic slide presentations. Slideshows can include animation, narration, images, videos, and much more.

**How to update PowerPoint 2013 to 2019 for free?** Select Account. In older versions of PowerPoint, select Help. Select Update Options > Update Now or Check

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for Updates (depending on your version). After PowerPoint installs updates, you'll have the option to enable automatic updates (if it's not already enabled).

**How do I get PowerPoint 2013?** The 2013 version sometimes has installers available in your Microsoft Account. Start by signing in: Microsoft account Sign In, then click on the Services & subscriptions link at the top of the page. If PowerPoint 2013 is listed there, click on the Install link to install it.

**What are the main views of PowerPoint 2013?** By default, PowerPoint opens in Normal view, displaying the thumbnails, notes and slide view. If you prefer, however, you can specify that PowerPoint open in a different view, such as Slide Sorter view, Slide Show view, Notes Page view, and variations on Normal view.

**Is Microsoft PowerPoint free?** Explore Microsoft 365 free apps. Be free to be you with Microsoft 365 apps like Word, Excel, PowerPoint and more.

**Is Microsoft PowerPoint still used?** Out of the 500 million PowerPoint users in the world, over 120 million of those people use PowerPoint to create presentations in a business environment, which means that it's still very likely that you currently use and may continue to use PowerPoint for your own work.

**Is PowerPoint 2013 still supported?** Support for Office 2013 ended on April 11, 2023 and there will be no extension and no extended security updates. All of your Office 2013 apps will continue to function. However, you could expose yourself to serious and potentially harmful security risks.

**Why can't I use Microsoft PowerPoint for free?** If you have a Microsoft account (free), you can use PowerPoint Online in your webbrowser for free, It doesn't have all the features of the desktop version.

**Can I upgrade Office 2013 to 2016 for free?** If you currently own Office 2013 through an Office 365 subscription purchased prior to Office 2016's release, the good news is you can update to Office 2016 for free! If you don't, you're going to need to purchase an Office 365 subscription or a permanent version of Office 2016.

**How do I open a PowerPoint 2013?** 1) Click on the PowerPoint icon in the Taskbar. If you do not see the icon, go to the Start button, right-click, and choose Search. Type "PowerPoint" in the search field, and when PowerPoint appears,

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double-click it. (Windows 7: Go to the Start button, then All Programs and choose PowerPoint.

**Do you have to pay for PowerPoint?** Use Microsoft 365 apps for free on the web. Get free access to Word, Excel, and PowerPoint using Microsoft 365 for the web (formerly Office).

**How to use PowerPoint without a subscription?** Use PowerPoint in a web browser. If you have a Microsoft account (hotmail.com, outlook.com, live.com, msn.com) or a Microsoft 365 work or school account, you can view and edit a presentation for free in a web browser. Save the file to OneDrive or Dropbox and use PowerPoint for the web to open it.

**What is the purpose of Microsoft PowerPoint 2013?** You can use PowerPoint to create slide presentations, handouts, transparencies, and much more. Then, you can design the presentations so the slides are on a timer; you can add audio, link to another slide within the presentation, a slide outside of the presentation, or present a hyperlink to the World Wide Web.

**Where is the tool in PowerPoint 2013?** By default, PowerPoint adds a blank title slide when you first start. This area, up here, is called the ribbon, which contains the tools for creating your slides and slide show.

**What is new in PowerPoint 2013?** For many years PowerPoint users have complained that the default templates are not customizable enough. PowerPoint 2013 is Microsoft's answer to these complaints; variations on many of the built-in themes now allow you to quickly change the color palette, fonts, effects, and background styles of a presentation.

**What is Microsoft PowerPoint mainly used for?** Microsoft PowerPoint is a powerful slide show presentation program. It is a standard component of the company's Microsoft Office suite software, and is bundled together with Word, Excel, and other office productivity tools. The program uses slides to convey information rich in multimedia.

**What is the difference between PowerPoint 2010 and 2013?** One change is immediately noticeable upon opening PowerPoint 2013. The new Start screen

provides easy access to both local and online presentation templates as well as recently used files.

**What are the three components of PowerPoint 2013?** 1 Quick Access Toolbar Displays quick access to commonly used commands. 2 Title Bar Displays name of the open file. 3 File Tab It helps to manage Microsoft application and provides access to options such as Open, New, Save As, Print, etc. 4 Thumbnail Slide Displays a snapshot of each slide.

**How does Microsoft PowerPoint work?** PowerPoint presentations work like slide shows. To convey a message or a story, you break it down into slides. Think of each slide as a blank canvas for the pictures and words that help you tell your story.

**What is a Fortune 500 company?** The Fortune 500 is an annual list of 500 of the largest US companies ranked by total revenues for their respective fiscal years. The list is compiled and published by Fortune magazine. Being on the Fortune 500 is considered to be prestigious—firms on the list are considered to be of high quality.

**Is Fortune 500 or 1000 better?** The Fortune 1000 is a list of the top revenue-generating companies for the previous year. The Fortune 500 is a subset of the Fortune 1000 that comprises the largest 500 companies therein. The Fortune 100 is an even more elite subset, with the largest 100 revenue-generating companies.

**Is Google a Fortune 500 company?** Alphabet, the parent company of Google, generated over \$282 billion in revenue last year to secure its number eight ranking on the list.

**Is Nike a Fortune 100 company?** Nike, Inc., ranked 93rd in the 2023 Fortune 500 list, is a dominant player in the global sportswear market.

**Is Tesla a Fortune 500 company?** Add this to Elon Musk's long list of accomplishments -- he is now CEO of a Fortune 500 company. Tesla catapulted onto the Fortune 500 list of the nation's largest companies for the first time Wednesday, landing at 383 on the list.

**Is JP Morgan a Fortune 500 company?** The firm operates the largest investment bank in the world by revenue. It occupies 24th place on the Fortune 500 list of the largest U.S. corporations by revenue. In 2023, JPMorgan Chase was ranked #1 in

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the Forbes Global 2000 ranking.

**Is Disney a Fortune 500 company?** Disney is one of the biggest and best-known companies in the world and has been ranked number 53 on the 2022 Fortune 500 list of biggest companies in the United States by revenue.

**Is Global 500 same as Fortune 500?** The Fortune Global 500 is our annual ranking of the largest 500 corporations worldwide as measured by total revenue, whereas the Fortune 500 is exclusively U.S. corporations.

**How much is a Fortune 500?** In total, Fortune 500 companies represent two-thirds of the U.S. GDP with \$18.8 trillion in revenues, \$1.7 trillion in profits, and \$43 trillion in market value (as of March 28, 2024), and they employ 31 million people worldwide.

**Which country has most companies in Fortune 500?** Number of Fortune 500 companies worldwide 2000-2023, by country. From 2000 to 2019, the United States had more Fortune 500 companies than any other country.

**Who is the richest company in the world?**

**Is Boeing a Fortune 500 company?** For example, the banks had their own Fortune 50 list. Out of the first batch of top 50 Fortune companies, 14 are still on the list, including GM, Goodyear, Lockheed Martin— then Lockheed Aircraft— and Boeing, which has recently been plagued by quality-control controversies.

**Who is richer Nike or adidas?** The brand value of Nike has increased year-on-year since 2010 and reached over 53 billion U.S. dollars in 2023. In comparison, the adidas brand was valued at approximately 16.6 billion U.S. dollars in – increasing for the eight consecutive year following two years of decline.

**Is Fortune 500 only American companies?** Methodology. Until 1989, it listed only non–United States industrial corporations under the title "International 500" while the Fortune 500 contained and still contains exclusively United States corporations.

**Is Nike made in Indonesia original?** No, Nike shoes made in Indonesia are not inherently fake. Nike, like many other global brands, has manufacturing facilities in various countries, including Indonesia. Nike is known for outsourcing its production



to multiple factories worldwide to meet the demand for its products.

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**Is Fortune 500 the same as S&P 500?** The Fortune 500 is an annual list of the 500 largest companies, compiled by Fortune magazine, using the most recent revenue figures and includes public and private companies. The S&P 500 is an index of 500 public companies that are selected by the S&P Index Committee.

**Is FedEx a Fortune 500 company?** FedEx ranked No. 50 in the 2018 Fortune 500 list of the largest United States corporations by total revenue.

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### **White Death: Tim Vicary's Tragic Legacy**

**Q: Who was Tim Vicary?** A: Tim Vicary was a British mountaineer who gained notoriety for his daring ascents of some of the world's most treacherous peaks. His nickname, "White Death," reflected his audacious approach to climbing in harsh winter conditions.

**Q: What made Vicary's ascents so unique?** A: Vicary was known for pushing the boundaries of mountaineering by attempting ascents of notoriously difficult peaks in extreme conditions. He was particularly renowned for his winter ascents, when the mountains were covered in snow and ice, making them even more dangerous.

**Q: What was Vicary's tragic fate?** A: In 1985, Vicary embarked on a solo ascent of K2, the second-highest mountain in the world. Tragically, he fell to his death during the descent. His body was discovered weeks later, frozen and perched on a snow cornice.

**Q: How did Vicary's death impact the mountaineering community?** A: Vicary's death sent shockwaves through the mountaineering world. He was considered one

of the most skilled and respected climbers of his time. His tragic end served as a sobering reminder of the inherent dangers of mountaineering, particularly in extreme conditions.

**Q: What is Vicary's legacy?** A: Despite his short life and tragic end, Vicary remains an iconic figure in the mountaineering community. His ascents and his relentless pursuit of adventure continue to inspire climbers worldwide. His legacy reminds us of the need for caution, preparation, and respect for the mountains we climb.

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