



Wisconsin Department of Agriculture, Trade and Consumer Protection

Veterinary Examining Board

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GUIDANCE DOCUMENT

Cannabis

This guidance document is based on Wis. Stat. ch. 89 and chapter VE 7 Wis. Admin. Code. This document is intended solely as guidance, and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. This guidance does not establish or affect legal rights or obligations, and is not finally determinative of any of the issues addressed.

This guidance document clarifies what a veterinarian may and may not do with regards to cannabis products.

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Dr. Robert Forbes – VEB Chair, Veterinary Examining Board

DATE

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Guidance Document VEB-GD-002 Cannabis

Wis. Stat. § 89.03 (1)
Wis. Admin. Code § VE 7.06
1/22/20

Topic

This guidance document clarifies what a veterinarian may and may not do with regards to cannabis products.

Definitions

Cannabis is a plant of the Cannabaceae family and contains more than eighty biologically active chemical compounds. Federal law divides cannabis into two categories: hemp and marijuana.

Hemp is defined by the 7 USC 1639o(1) as “the plant *Cannabis sativa L.* and any part of that plant, including the seeds thereof and all derivatives, extracts, cannabinoids, isomers, acids, salts, and salts of isomers, whether growing or not, with a delta-9 tetrahydrocannabinol concentration of not more than 0.3 percent on a dry weight basis.” The 2018 Farm Bill removed hemp from Schedule I of the Controlled Substances Act.

Marijuana/Marihuana is defined by 21 USC 802(16) as “all parts of the plant *Cannabis sativa L.*, whether grown or not; the seeds thereof; the resin extracted from any part of such plant; and every compound, manufacture, salt, derivate, mixture, or preparation of such plant, its seeds or resin,” except for “hemp, as defined in section 1639o of title 7; or the mature stalks of such plant, fiber produced from such stalks, oil or cake made from the seeds of such plant, any other compound, manufacture, salt, derivative, mixture, or preparation of such mature stalks (except the resin extracted therefrom), fiber, oil, or cake, or the sterilized seed of such plant which is incapable of germination.” Marijuana/Marihuana is listed in Schedule I of the Controlled Substances Act.

THC is an abbreviation of delta-9-tetrahydrocannabinol, a compound of the cannabis plant. Hemp plants contain no more than 0.3 percent THC on a dry weight basis, and marijuana plants contain more than 0.3 percent THC on a dry weight basis.

CBD is an abbreviation of cannabidiol, a compound of the cannabis plant. Hemp plants and marijuana plants both contain CBD.

Hemp Seeds are the seeds of the *Cannabis sativa* plant. The seeds of the plant do not naturally contain THC or CBD. The seeds may pick up trace amounts of TCH and/or CBD during the harvesting and processing when they are in contact with other parts of the plant.

Relevant Statutes and Administrative Code

Wis. Stat. § 89.02 (6) defines the practice of veterinary medicine as to examine into the fact or cause of animal health, disease or physical condition, or to treat, operate, prescribe or advise for the same, or to under-take, offer, advertise, announce, or hold out in any manner to do any of said acts, for compensation, direct or indirect, or in the expectation thereof.

Wis. Stat. § 89.03 (1) authorizes the board to promulgate rules to establish the scope of the practice permitted for veterinarians and veterinary technicians, within the limits of the definition under Wis. Stat. § 89.02 (6).

Wis. Stat. § 89.068 (1) (a) prohibits making extra-label use of a drug on an animal without a prescription or in any manner not authorized by that prescription.

Wis. Stat. § 89.068 (1) (c) 3. prohibits a veterinarian from prescribing a drug to a client for extra-label use on a patient unless all of the following apply:

- a. A veterinary-client-patient relationship exists between the veterinarian, client and patient and the veterinarian has made a careful medical diagnosis of the condition of the patient within the context of that veterinary-client-patient relationship.
- b. The veterinarian determines that there is no drug that is marketed specifically to treat the patient's diagnosed condition, or determines that all of the drugs that are marketed for that purpose are clinically ineffective.
- c. The veterinarian recommends procedures for the client to follow to ensure that the identity of the patient will be maintained.
- d. If the patient is a food-producing animal, the veterinarian prescribes a sufficient time period for drug withdrawal before the food from the patient may be marketed.

Wis. Stat. § 89.07 (1) (b) classifies violating any federal or state statute or rule that substantially relates to the practice of veterinary medicine as unprofessional conduct that may result in disciplinary action by the Board.

Wis. Admin. Code § VE 7.06 (4) classifies violating or aiding and abetting the violation of any law or administrative rule or regulation substantially related to the practice of veterinary medicine as unprofessional conduct that may result in disciplinary action by the Board.

Federal Law and Regulation

The 2018 Farm Bill removed hemp from the Controlled Substance Act definition of marijuana. As a result, while marijuana remains a Schedule I drug, hemp is no longer a controlled substance under Federal law. The 2018 Farm Bill explicitly preserved the authority of the United States Food and Drug Administration (FDA) to regulate products containing cannabis or cannabis-derived compounds under the Food, Drug and Cosmetic Act (FD&C Act) and section 351 of the Public Health Service Act. It is illegal to market or sell cannabis products in interstate commerce for animal use unless the FDA approves the product for animal use. To date, the FDA has not approved any cannabis product for animal use.

Drugs: Under the FD&C Act, any product intended to have a therapeutic or medical use, and any product (other than a food) that is intended to affect the structure of the body of humans or animals, is a drug. To date, the FDA has not approved any cannabis-containing, cannabis-derived, or cannabis-related drugs for animal use. The FDA has approved one cannabis-derived (Epidiolex) and three cannabis-related (Marinol, Syndros, and Cesamet) prescription drugs for human use. The Animal Medicinal Drug Use Clarification Act (AMDUCA)

permits veterinarians to prescribe extra-label uses of FDA approved human and animal drugs for animals under certain conditions. Among other limitations, extra-label use of a drug is only allowed in circumstances when the health of an animal is threatened or suffering, or death may result from failure to treat.

Foods: All food ingredients must be approved by the FDA as either a food additive or as Generally Recognized as Safe (GRAS). The FDA also recognizes ingredients listed in the Official Publication of the Association of American Feed Control Officials (AAFCO). To date, neither the FDA nor AAFCO have approved any cannabis-containing or cannabis-derived foods for animal use. The FDA has approved three cannabis products as GRAS for human use only: hulled hemp seed, hemp seed protein powder, and hemp seed oil.

Supplements: The definition of dietary supplement only applies to human products. All products for animal use are classified as either foods or drugs and must be FDA approved. CBD and THC are the active ingredients in FDA approved human prescription drugs, so all products containing CBD or THC are classified as drugs.

See the attached FDA documents for additional information: “Remarks by Dr. Sharpless at the FDA Public Hearing on Scientific Data and Information about Products Containing Cannabis or Cannabis-Derived Compounds,” dated May 31, 2019; “FDA Regulation of Cannabis and Cannabis-Derived Products: Questions and Answers,” dated November 13, 2019; and “FDA Warns 15 Companies for Illegally Selling Various Products Containing Cannabidiol as Agency Details Safety Concerns,” dated November 25, 2019. See the FDA website at www.fda.gov for the latest information regarding FDA regulation of cannabis-containing and cannabis-derived products.

Board Position

Administering, prescribing, or dispensing drugs or food additives must conform to state and federal laws and regulations, including FDA regulations (Wis. Stat. § 89.07 (b) and Wis. Admin. Code § VE 7.06 (4)).

Referring or recommending drugs or food additives must conform to state and federal laws and regulations, including FDA regulations (Wis. Admin. Code § VE 7.06 (4)).

The Board acknowledges that cannabis products are currently being marketed to pet owners in a manner that does not conform to state and federal laws and regulations, including FDA regulations. To reduce the risk to animal health, veterinarians may discuss such products with their clients, provide available information, and express concerns. Veterinarians may also explain why they cannot administer, prescribe, dispense, refer, or recommend such products.

IN THIS SECTION



SPEECH

Remarks by Dr. Sharpless at the FDA Public Hearing on Scientific Data and Information about Products Containing Cannabis or Cannabis-Derived Compounds

MAY 31, 2019

Speech by

Norman E. "Ned" Sharpless, MD

Acting

Commissioner of Food and Drugs - Food and Drug Administration

White Oak, MD

(Remarks as prepared for delivery)

Thank you for joining FDA today for this public hearing titled “Scientific Data and Information About Products Containing Cannabis or Cannabis-Derived Compounds”.

I am pleased to see that there is such interest in this topic. We have over 500 people registered to attend in person, over 800 people registered to join us remotely, and over 100 speakers on today’s agenda presenting on this topic.

We encourage all stakeholders – presenters, attendees, and those unable to participate in today’s hearing – to submit comments to our docket on this topic, which is open until July 2, 2019.

Docket comments will help inform FDA as we consider the important policy options related to the regulation of products containing cannabis or cannabis-derived compounds.

It is important to note that the FDA's role in the regulation of products containing cannabis or cannabis-derived compounds is not new.

Cannabis contains more than 80 biologically active chemical compounds, including the two best known compounds, delta-9-tetrahydrocannabinol (THC) and cannabidiol (CBD).

If one of these compounds, or the plant itself, is added to a food or cosmetic, marketed as a drug, or otherwise added to an FDA-regulated product in interstate commerce, then it falls within FDA's jurisdiction. As I said, this is nothing new for FDA.

At the same time, some relevant laws have changed. First, some states have changed their laws to allow for "medical" use of marijuana or CBD, and others have begun allowing for recreational marijuana use, or decriminalized recreational marijuana possession.

Second, certain federal laws have changed as well. Parts of the Cannabis sativa plant have been controlled under the Federal Controlled Substances Act, or CSA, since 1970 under the drug class "Marihuana."

Marihuana is included in Schedule I of the CSA – the most restrictive schedule – due to its potential for abuse, largely attributable to the psychoactive effects of THC, and the absence of a currently accepted medical use in the United States.

Late last year, the federal scheduling of cannabis changed. The Agriculture Improvement Act of 2018, or the Farm Bill, removed hemp – meaning cannabis or derivatives of cannabis with a very low THC content (below 0.3% by dry weight) – from the CSA's definition of marijuana. As a result, while marijuana remains a Schedule I drug, hemp is no longer a controlled substance under Federal law.

As these laws have changed, FDA's authorities have become more relevant.

The 2018 Farm Bill explicitly preserved FDA's authority to regulate products containing cannabis or cannabis-derived compounds. In doing so, Congress recognized FDA's important public health role with respect to all the products it regulates – including when those products are or contain cannabis ingredients.

FDA treats substances derived from cannabis just like we do any other substances, and they are subject to the same authorities as any other substance.

Under FDA's authorities, the relevant legal requirements vary depending on which type of product we're talking about.

For example, if a product is being marketed as a drug – meaning, for example, that it's intended to have a therapeutic effect such as treating a disease or affecting the body's structure or function – then it's regulated as a drug, and it generally cannot be sold without FDA approval.

FDA has approved several drug products that contain compounds found in cannabis.

These include EPIDIOLEX, which contains CBD, for the treatment of specific types of seizures in certain pediatric patients, and MARINOL and SYNDROS, which contains dronabinol, a synthetic THC, for uses including the treatment of anorexia in patients with AIDS.

These drugs have important therapeutic value, and it is critical that we continue to do what we can to support the science needed to develop new drugs from cannabis.

Food, including dietary supplements, is regulated differently, but with the same overarching goal of protecting consumers.

We know that American consumers depend on FDA to help make sure that the food they eat, and that they serve to their families, is safe. We do this through a number of requirements.

For example, while we don't generally require foods to be approved by FDA before coming to market, we do require that a new food additive be approved as safe by FDA before being put in the food supply, unless the substance is generally recognized as safe, or GRAS.

This requirement applies to cannabis-derived ingredients, just as it does to any other substance. Americans deserve to know that substances being added to their foods are safe, regardless of the source.

I will note that several cannabis-derived substances have already come to market through the GRAS pathway.

In December, FDA announced that we completed our evaluation of GRAS notices for three hemp seed ingredients and had no objection to their being marketed in human foods for certain uses without approval, provided they comply with all other requirements.

As I mentioned earlier, however, some compounds found in cannabis – specifically, CBD and THC – have been studied and even approved as drugs. It's important to note that the Federal Food, Drug & Cosmetic Act prohibits adding drugs to human or animal food in interstate commerce.

That includes both substances that have been approved as drugs, as well as compounds for which substantial clinical investigations have been instituted. Similarly, the law excludes these products from the statutory definition of a dietary supplement.

Based on the information available to FDA, we have concluded that these provisions apply to CBD and THC. And while there is an exception when the substance was marketed as a food or dietary supplement before it was studied as a drug, we have concluded that that is not the case for CBD or THC.

What that means is that, under current law, CBD and THC cannot lawfully be added to a food or marketed as a dietary supplement.

Although the law says that FDA can issue regulations to create new exceptions to these statutory provisions, FDA has never issued a regulation like that for any substance.

So, if we were thinking about doing that for a substance like CBD, it would be new terrain for the FDA.

There are important reasons to generally prohibit putting drugs in the food supply. When FDA approves a drug, we carefully evaluate the risks and benefits of a specific formulation, dosage form, and strength for a particular population.

Often, we conclude that to be safely used, it requires a prescription or other medical supervision to help protect against potentially dangerous misuse.

THC and CBD are no exception.

There are real risks associated with both those substances and critical questions remain about the safety of their widespread use in foods and dietary supplements, as well as other consumer products – including cosmetics, which are subject to a separate regulatory framework.

And given the new interest in marketing cannabis products across the range of areas FDA regulates, we will need to carefully evaluate how all these pieces fit together in terms of how consumers might access cannabis products.

Nowhere is this truer than with CBD. While we have seen an explosion of interest in products containing CBD, there is still much that we don't know.

Prior to the 2018 Farm Bill, population-based research mostly included cannabis-focused observations in aggregate, rather than specific to CBD.

When hemp was removed as a controlled substance, this lack of research, and therefore evidence, to support CBD's broader use in FDA-regulated products, including in foods and dietary supplements, has resulted in unique complexities for its regulation, including many unanswered questions related to its safety.

For example, how much CBD is safe to consume in a day? What if someone applies a topical CBD lotion, consumes a CBD beverage or candy, and also consumes some CBD oil? How much is too much? How will it interact with other drugs the person might be taking? What if she's pregnant? What if children access CBD products like gummy edibles? What happens when someone chronically uses CBD for prolonged periods?

These and many other questions represent important and significant gaps in our knowledge.

To help us evaluate these questions, as well as potential pathways for CBD products, FDA has formed an internal working group to address these data gaps specifically. You'll be hearing more from this group in the months to come.

FDA is aware that some companies appear to be marketing products containing cannabis and cannabis-derived compounds in ways that violate the law.

FDA has issued warning letters to companies selling unapproved CBD products.

Our biggest concern is the marketing of products that put the health and safety of consumers at risk, such as those claiming to prevent, diagnose, mitigate, treat, or cure serious diseases, such as cancer, in the absence of requisite approvals.

Selling unapproved drug products with unsubstantiated therapeutic claims is a violation of the law, and puts patients at risk.


Patients and other consumers may be influenced not to use approved therapies to treat serious and even fatal diseases.

That being said, the agency does not have a policy of enforcement discretion with respect to any CBD products.

There are lots of questions we will need to answer to ensure that FDA is taking an appropriate, well-informed, and science-based approach to the regulation of cannabis and cannabis derivatives, including CBD.

We hope that this meeting, and the comments submitted to our public docket, will help us as we try to approach this issue in an informed way. This hearing is an important step in our continued evaluation of cannabis and cannabis-derived compounds in FDA-regulated products.

I thank you all for taking the time to join us today and your contributions toward this important topic. We have a full agenda....

 More Speeches by
FDA Officials (</news-events/speeches-fda-officials>)

FDA Regulation of Cannabis and Cannabis-Derived Products, Including Cannabidiol (CBD)

On this page:

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There is a significant interest in the development of therapies and other consumer products derived from cannabis and its components, including cannabidiol (CBD). FDA recognizes the potential opportunities that cannabis or cannabis-derived compounds may offer and acknowledges the significant interest in these possibilities. However, FDA is aware that some companies are marketing products containing cannabis and cannabis-derived compounds in ways that violate the Federal Food, Drug and Cosmetic Act (FD&C Act) and that may put the health and safety of consumers at risk. The agency is committed to protecting the public health while also taking steps to improve the efficiency of regulatory pathways for the lawful marketing of appropriate cannabis and cannabis-derived products. FDA has a number of resources available that address cannabis and cannabis-derived products, such as CBD, and the agency wants to ensure that consumers and other stakeholders have access to these resources in a centralized location.

Consumer Information

- [What You Should Know About Using Cannabis, Including CBD, When Pregnant or Breastfeeding \(/consumers/consumer-updates/what-you-should-know-about-using-cannabis-including-cbd-when-pregnant-or-breastfeeding\)](#)
- [What You Need to Know \(And What We're Working to Find Out\) About Products Containing Cannabis or Cannabis-derived Compounds, Including CBD \(/consumers/consumer-updates/what-you-need-know-and-what-were-working-find-out-about-products-containing-cannabis-or-cannabis\)](#)

FDA Communications

- Remarks at the Council for Responsible Nutrition Conference (</news-events/speeches-fda-officials/remarks-lowell-schiller-jd-council-responsible-nutrition-conference-1172019-11072019>)
- Remarks at the National Industrial Hemp Council 2019 Hemp Business Summit (</news-events/speeches-fda-officials/remarks-national-industrial-hemp-council-2019-hemp-business-summit-08132019>)
- Congressional Testimony: Hemp Production and the 2018 Farm Bill (</news-events/congressional-testimony/hemp-production-and-2018-farm-bill-07252019>)
 - Archived Video (<https://www.agriculture.senate.gov/hearings/hemp-production-and-the-2018-farm-bill>)
- FDA is Committed to Sound, Science-based Policy on CBD (</news-events/fda-voices-perspectives-fda-leadership-and-experts/fda-committed-sound-science-based-policy-cbd>)
- Statement on new steps to advance agency's continued evaluation of potential regulatory pathways for cannabis-containing and cannabis-derived products (</news-events/press-announcements/statement-fda-commissioner-scott-gottlieb-md-new-steps-advance-agencys-continued-evaluation>)

Regulatory Resources

- Scientific Data and Information about Products Containing Cannabis or Cannabis-Derived Compounds; Public Hearing
 - Federal Register Notice (<https://www.federalregister.gov/documents/2019/04/03/2019-06436/scientific-data-and-information-about-products-containing-cannabis-or-cannabis-derived-compounds>)
 - Public Hearing Page (</news-events/fda-meetings-conferences-and-workshops/scientific-data-and-information-about-products-containing-cannabis-or-cannabis-derived-compounds>)
 - Public Docket (<https://www.regulations.gov/docket?D=FDA-2019-N-1482>)

- [Warning Letters and Test Results for Cannabidiol-Related Products \(/news-events/public-health-focus/warning-letters-and-test-results-cannabidiol-related-products\)](#)
- **State, Local, Tribal, Territorial (SLTT) Regulatory Officials:** FDA is committed to working with our SLTT public health regulatory partners as developments occur in the regulatory landscape. Please contact the Intergovernmental Affairs team with any questions at IGA@fda.hhs.gov (<mailto:IGA@fda.hhs.gov>).

Questions and Answers

Below are a number of frequently asked questions and answers on this topic.

1. What are cannabis and marijuana?
2. How does the 2018 Farm Bill define hemp? What does it mean for FDA-regulated products?
3. Has FDA approved any medical products containing cannabis or cannabis-derived compounds such as CBD?
4. Aside from Epidiolex, are there other CBD drug products that are FDA-approved? What about the products I've seen in stores or online?
5. Why hasn't FDA approved more products containing cannabis or cannabis-derived compounds for medical uses?
6. What is FDA's reaction to states that are allowing cannabis to be sold for medical uses without the FDA's approval?
7. Has the agency received any adverse event reports associated with cannabis use for medical conditions?
8. Is it legal for me to sell CBD products?
9. Can THC or CBD products be sold as dietary supplements?
10. Is it legal, in interstate commerce, to sell a food (including any animal food or feed) to which THC or CBD has been added?
11. In making the two previous determinations about THC, why did FDA conclude that THC is an active ingredient in a drug product that has been approved under section 505 of the FD&C Act? In making the two previous determinations about CBD, why did FDA determine that substantial clinical investigations have been authorized for and/or instituted, and that the existence of such investigations has been made public?

12. Can hulled hemp seed, hemp seed protein powder, and hemp seed oil be used in human food?
13. What is FDA's position on cannabis and cannabis-derived ingredients in cosmetics?
14. Will FDA take action against cannabis or cannabis-related products that are in violation of the FD&C Act?
15. Can I import or export cannabis-containing or cannabis-derived products?
16. What is FDA's role when it comes to the investigation of cannabis and cannabis-derived products for medical use?
17. Does the FDA object to the clinical investigation of cannabis for medical use?
18. How can patients gain access to cannabis or cannabis-derived products for medical use through expanded access?
19. Can patients gain access to cannabis or cannabis-derived products for medical use through Right to Try?
20. Does the FDA have concerns about administering a cannabis product to children?
21. Does the FDA have concerns about administering a cannabis product to pregnant and lactating women?
22. What does the FDA think about making CBD available to children with epilepsy?
23. What should I do if my child eats something containing cannabis?
24. I've seen cannabis products being marketed for pets. Are they safe?
25. Can hemp be added to animal food?
26. Can approved human drugs containing CBD or synthetic THC be used extralabel in animals?

1. What are cannabis and marijuana?

A. Cannabis is a plant of the Cannabaceae family and contains more than eighty biologically active chemical compounds. The most commonly known compounds are delta-9-tetrahydrocannabinol (THC) and cannabidiol (CBD). Parts of the *Cannabis sativa* plant have been controlled under the Controlled Substances Act (CSA) since 1970 under the drug class "Marihuana" (commonly referred to as "marijuana") [21

U.S.C. 802(16)]. "Marihuana" is listed in Schedule I of the CSA due to its high potential for abuse, which is attributable in large part to the psychoactive effects of THC, and the absence of a currently accepted medical use of the plant in the United States.

2. How does the 2018 Farm Bill define hemp? What does it mean for FDA-regulated products?

A. At the federal level, the Agriculture Improvement Act of 2018, Pub. L. 115-334, (the 2018 Farm Bill) was signed into law on Dec. 20, 2018. Among other things, this new law changes certain federal authorities relating to the production and marketing of hemp, defined as "the plant *Cannabis sativa* L. and any part of that plant, including the seeds thereof and all derivatives, extracts, cannabinoids, isomers, acids, salts, and salts of isomers, whether growing or not, with a delta-9 tetrahydrocannabinol concentration of not more than 0.3 percent on a dry weight basis." These changes include removing hemp from the CSA, which means that cannabis plants and derivatives that contain no more than 0.3 percent THC on a dry weight basis are no longer controlled substances under federal law.

The 2018 Farm Bill, however, explicitly preserved FDA's authority to regulate products containing cannabis or cannabis-derived compounds under the FD&C Act and section 351 of the Public Health Service Act (PHS Act). FDA treats products containing cannabis or cannabis-derived compounds as it does any other FDA-regulated products — meaning they're subject to the same authorities and requirements as FDA-regulated products containing any other substance. This is true regardless of whether the cannabis or cannabis-derived compounds are classified as hemp under the 2018 Farm Bill.

3. Has FDA approved any medical products containing cannabis or cannabis-derived compounds such as CBD?

A. To date, the agency has not approved a marketing application for cannabis for the treatment of any disease or condition. FDA has, however, approved one cannabis-derived and three cannabis-related drug products. These approved products are only available with a prescription from a licensed healthcare provider.

FDA has approved Epidiolex (</news-events/press-announcements/fda-approves-first-drug-comprised-active-ingredient-derived-marijuana-treat-rare-severe-forms>), which contains a purified form of the drug substance CBD for the treatment of seizures

associated with Lennox-Gastaut syndrome or Dravet syndrome in patients 2 years of age and older. That means FDA has concluded that this particular drug product is safe and effective for its intended use.

The agency also has approved Marinol and Syndros for therapeutic uses in the United States, including for the treatment of anorexia associated with weight loss in AIDS patients. Marinol and Syndros include the active ingredient dronabinol, a synthetic delta-9- tetrahydrocannabinol (THC) which is considered the psychoactive component of cannabis. Another FDA-approved drug, Cesamet, contains the active ingredient nabilone, which has a chemical structure similar to THC and is synthetically derived.

4. Aside from Epidiolex, are there other CBD drug products that are FDA-approved? What about the products I've seen in stores or online?

A. No. There are no other FDA-approved drug products that contain CBD. We are aware that some firms are marketing CBD products to treat diseases or for other therapeutic uses , and we have issued several warning letters (</news-events/public-health-focus/warning-letters-and-test-results-cannabidiol-related-products>) to such firms. Under the FD&C Act, any product intended to have a therapeutic or medical use, and any product (other than a food) that is intended to affect the structure or function of the body of humans or animals, is a drug. Drugs must generally either receive premarket approval by FDA through the New Drug Application (NDA) process or conform to a "monograph" for a particular drug category, as established by FDA's Over-the-Counter (OTC) Drug Review. CBD was not an ingredient considered under the OTC drug review. An unapproved new drug cannot be distributed or sold in interstate commerce.

FDA continues to be concerned at the proliferation of products asserting to contain CBD that are marketed for therapeutic or medical uses although they have not been approved by FDA. Often such products are sold online and are therefore available throughout the country. Selling unapproved products with unsubstantiated therapeutic claims is not only a violation of the law, but also can put patients at risk, as these products have not been proven to be safe or effective. This deceptive marketing of unproven treatments also raises significant public health concerns, because patients and other consumers may be influenced not to use approved therapies to treat serious and even fatal diseases.

Unlike drugs approved by FDA, products that have not been subject to FDA review as part of the drug approval process have not been evaluated as to whether they work, what the proper dosage may be if they do work, how they could interact with other drugs, or whether they have dangerous side effects or other safety concerns.

The agency has and will continue to monitor the marketplace and take action as needed to protect the public health against companies illegally selling cannabis and cannabis-derived products that can put consumers at risk and that are being marketed for therapeutic uses for which they are not approved. At the same time, FDA recognizes the potential therapeutic opportunities that cannabis or cannabis-derived compounds could offer and acknowledges the significant interest in these possibilities. FDA continues to believe that the drug approval process represents the best way to help ensure that safe and effective new medicines, including any drugs derived from cannabis, are available to patients in need of appropriate medical therapy. The Center for Drug Evaluation and Research (CDER) is committed to supporting the development of new drugs, including cannabis and cannabis-derived drugs, through the investigational new drug (IND) and drug approval process (see Question #16).

5. Why hasn't FDA approved more products containing cannabis or cannabis-derived compounds for medical uses?

A. FDA is aware that unapproved cannabis or cannabis-derived products are being used for the treatment of a number of medical conditions including, for example, AIDS wasting, epilepsy, neuropathic pain, spasticity associated with multiple sclerosis, and cancer and chemotherapy-induced nausea.

To date, FDA has not approved a marketing application for cannabis for the treatment of any disease or condition and thus has not determined that cannabis is safe and effective for any particular disease or condition. The agency has, however, approved one cannabis-derived and three cannabis-related drug products (see Question #2).

FDA relies on applicants and scientific investigators to conduct research. The agency's role, as laid out in the FD&C Act, is to review data submitted to the FDA in an application for approval to ensure that the drug product meets the statutory standards for approval.

The study of cannabis and cannabis-derived compounds in clinical trial settings is needed to assess the safety and effectiveness of these substances for the treatment of any disease or condition. FDA's December 2016 *Guidance for Industry: Botanical Drug Development* ([/regulatory-information/search-fda-guidance-](#)

documents/botanical-drug-development-guidance-industry) provides specific recommendations on submitting INDs for botanical drug products, such as those derived from cannabis, in support of future marketing applications for these products. The FDA will continue to facilitate the work of companies interested in appropriately bringing safe, effective, and quality products to market, including scientifically-based research concerning the medicinal uses of cannabis. Additional information concerning research on the medical use of cannabis is available from the National Institutes of Health, particularly the National Cancer Institute (<https://www.cancer.gov/>) (NCI) and National Institute on Drug Abuse (<https://www.drugabuse.gov/drugs-abuse/marijuana/nih-research-marijuana-cannabinoids>) (NIDA).

6. What is FDA's reaction to states that are allowing cannabis to be sold for medical uses without the FDA's approval?

A. The FDA is aware that several states have either passed laws that remove state restrictions on the medical use of cannabis and its derivatives or are considering doing so. It is important to conduct medical research into the safety and effectiveness of cannabis products through adequate and well-controlled clinical trials. We welcome the opportunity to talk with states who are considering support for medical research of cannabis and its derivatives, so that we can provide information on Federal and scientific standards.

7. Has the agency received any adverse event reports associated with cannabis use for medical conditions?

A. The agency has received reports of adverse events in patients using cannabis or cannabis-derived products to treat medical conditions. The FDA reviews such reports and will continue to monitor adverse event reports for any safety signals, with a focus on serious adverse effects.

Information from adverse event reports regarding cannabis use is extremely limited; FDA primarily receives adverse event reports for approved products. General information on the potential adverse effects of using cannabis and its constituents can come from clinical trials that have been published, as well as from spontaneously reported adverse events sent to the FDA. Additional information about the safety and effectiveness of cannabis and its constituents is needed. Clinical trials of cannabis conducted under an IND application could collect this important information as a part of the drug development process.

8. Is it legal for me to sell CBD products?

A. It depends, among other things, on the intended use of the product and how it is labeled and marketed. Even if a CBD product meets the definition of "hemp" under the 2018 Farm Bill (see Question #2), it still must comply with all other applicable laws, including the FD&C Act. The below questions and answers explain some of the ways that specific parts of the FD&C Act can affect the legality of CBD products.

We are aware that state and local authorities are fielding numerous questions about the legality of CBD. There is ongoing communication with state and local officials to answer questions about requirements under the FD&C Act, to better understand the landscape at the state level, and to otherwise engage with state/local regulatory partners.

9. Can THC or CBD products be sold as dietary supplements?

A. No. Based on available evidence, FDA has concluded that THC and CBD products are excluded from the dietary supplement definition under section 201(ff)(3)(B) of the FD&C Act [21 U.S.C. § 321(ff)(3)(B)]. Under that provision, if a substance (such as THC or CBD) is an active ingredient in a drug product that has been approved under section 505 of the FD&C Act [21 U.S.C. § 355], or has been authorized for investigation as a new drug for which substantial clinical investigations have been instituted and for which the existence of such investigations has been made public, then products containing that substance are excluded from the definition of a dietary supplement. FDA considers a substance to be "authorized for investigation as a new drug" if it is the subject of an Investigational New Drug application (IND) that has gone into effect. Under FDA's regulations (21 CFR 312.2), unless a clinical investigation meets the limited criteria in that regulation, an IND is required for all clinical investigations of products that are subject to section 505 of the FD&C Act.

There is an exception to section 201(ff)(3)(B) if the substance was "marketed as" a dietary supplement or as a conventional food before the drug was approved or before the new drug investigations were authorized, as applicable. However, based on available evidence, FDA has concluded that this is not the case for THC or CBD.

FDA is not aware of any evidence that would call into question its current conclusions that THC and CBD products are excluded from the dietary supplement definition under section 201(ff)(3)(B) of the FD&C Act. Interested parties may present the

agency with any evidence that they think has bearing on this issue. Our continuing review of information that has been submitted thus far has not caused us to change our conclusions.

When a substance is excluded from the dietary supplement definition under section 201(ff)(3)(B) of the FD&C Act, the exclusion applies unless FDA, in the agency's discretion, has issued a regulation, after notice and comment, finding that the article would be lawful under the FD&C Act. To date, no such regulation has been issued for any substance.

Ingredients that are derived from parts of the cannabis plant that do not contain THC or CBD might fall outside the scope of this exclusion, and therefore might be able to be marketed as dietary supplements. However, all products marketed as dietary supplements must comply with all applicable laws and regulations governing dietary supplement products. For example, manufacturers and distributors who wish to market dietary supplements that contain "new dietary ingredients" (i.e., dietary ingredients that were not marketed in the United States in a dietary supplement before October 15, 1994) generally must notify FDA about these ingredients (see section 413 (d) of the FD&C Act [21 U.S.C. § 350b(d)]). Generally, the notification must include information demonstrating that a dietary supplement containing the new dietary ingredient will reasonably be expected to be safe under the conditions of use recommended or suggested in the labeling. A dietary supplement is adulterated if it contains a new dietary ingredient for which there is inadequate information to provide reasonable assurance that the ingredient does not present a significant or unreasonable risk of illness or injury (see section 402(f)(1)(B) of the FD&C Act [21 U.S.C. 342(f)(1)(B)]).

Numerous other legal requirements apply to dietary supplement products, including requirements relating to Current Good Manufacturing Practices (CGMPs) (/food/current-good-manufacturing-practices-cgmps/current-good-manufacturing-practices-cgmps-dietary-supplements) and labeling. Information about these requirements, and about FDA requirements across all product areas, can be found on FDA's website.

10. Is it legal, in interstate commerce, to sell a food (including any animal food or feed) to which THC or CBD has been added?

A. No. Under section 301(ll) of the FD&C Act [21 U.S.C. § 331(ll)], it is prohibited to introduce or deliver for introduction into interstate commerce any food (including any animal food or feed) to which has been added a substance which is an active ingredient in a drug product that has been approved under section 505 of the FD&C Act [21 U.S.C. § 355], or a drug for which substantial clinical investigations have been instituted and for which the existence of such investigations has been made public. There are exceptions, including when the drug was marketed in food before the drug was approved or before the substantial clinical investigations involving the drug had been instituted or, in the case of animal feed, that the drug is a new animal drug approved for use in feed and used according to the approved labeling. However, based on available evidence, FDA has concluded that none of these is the case for THC or CBD. FDA has therefore concluded that it is a prohibited act to introduce or deliver for introduction into interstate commerce any food (including any animal food or feed) to which THC or CBD has been added. FDA is not aware of any evidence that would call into question these conclusions. Interested parties may present the agency with any evidence that they think has bearing on this issue. Our continuing review of information that has been submitted thus far has not caused us to change our conclusions.


When this statutory prohibition applies to a substance, it prohibits the introduction into interstate commerce of any food to which the substance has been added unless FDA, in the agency's discretion, has issued a regulation approving the use of the substance in the food (section 301(ll)(2) of the FD&C Act [21 U.S.C. § 331(ll)(2)]). To date, no such regulation has been issued for any substance.

Ingredients that are derived from parts of the cannabis plant that do not contain THC or CBD might fall outside the scope of 301(ll), and therefore might be able to be added to food. For example, as discussed in Question #12, certain hemp seed ingredients can be legally marketed in human food. However, all food ingredients must comply with all applicable laws and regulations. For example, by statute, any substance intentionally added to food is a food additive, and therefore subject to premarket review and approval by FDA, unless the substance is generally recognized as safe (GRAS) by qualified experts under the conditions of its intended use, or the use of the substance is otherwise excepted from the definition of a food additive (sections 201(s) and 409 of the FD&C Act [21 U.S.C. §§ 321(s) and 348]). Aside from the three hemp seed ingredients mentioned in Question #12, no other cannabis or cannabis-derived ingredients have been the subject of a food additive petition, an evaluated GRAS notification, or have otherwise been approved for use in food by FDA. Food

companies that wish to use cannabis or cannabis-derived ingredients in their foods are subject to the relevant laws and regulations that govern all food products, including those that relate to the food additive and GRAS processes.

11. In making the two previous determinations about THC, why did FDA conclude that THC is an active ingredient in a drug product that has been approved under section 505 of the FD&C Act? In making the two previous determinations about CBD, why did FDA determine that substantial clinical investigations have been authorized for and/or instituted, and that the existence of such investigations has been made public?

A. THC (dronabinol) is the active ingredient in the approved drug products, Marinol capsules (and generics) and Syndros oral solution. CBD is the active ingredient in the approved drug product, Epidiolex.

The existence of substantial clinical investigations regarding THC and CBD have been made public. For example, two such substantial clinical investigations include GW Pharmaceuticals' investigations regarding Sativex. (See Sativex Commences US Phase II/III Clinical Trial in Cancer Pain (<https://www.gwpharm.com/about/news/sativexr-commences-us-phase-iiiii-clinical-trial-cancer-pain>)  (<http://www.fda.gov/about-fda/website-policies/website-disclaimer>))

12. Can hulled hemp seed, hemp seed protein powder, and hemp seed oil be used in human food?

A. In December 2018, FDA completed its evaluation (</food/cfsan-constituent-updates/fda-responds-three-gras-notices-hemp-seed-derived-ingredients-use-human-food>) of three generally recognized as safe (GRAS) notices for the following hemp seed-derived food ingredients: hulled hemp seed, hemp seed protein powder, and hemp seed oil. FDA had no questions regarding the company's conclusion that the use of such products as described in the notices is safe. Therefore, these products can be legally marketed in human foods for the uses described in the notices, provided they comply with all other requirements. These GRAS notices related only to the use of these ingredients in human food. To date, FDA has not received any GRAS notices for the use of hemp-derived ingredients in animal food (see Question #25).

Hemp seeds are the seeds of the *Cannabis sativa* plant. The seeds of the plant do not naturally contain THC or CBD. The hemp seed-derived ingredients that are the subject of these GRAS notices contain only trace amounts of THC and CBD, which the seeds

may pick up during harvesting and processing when they are in contact with other parts of the plant. Consumption of these hemp seed-derived ingredients is not capable of making consumers "high."

The GRAS conclusions can apply to ingredients for human food marketed by other companies, if they are manufactured in a way that is consistent with the notices and they meet the listed specifications. Some of the intended uses for these ingredients include adding them as source of protein, carbohydrates, oil, and other nutrients to beverages (juices, smoothies, protein drinks, plant-based alternatives to dairy products), soups, dips, spreads, sauces, dressings, plant-based alternatives to meat products, desserts, baked goods, cereals, snacks and nutrition bars. Products that contain any of these hemp seed-derived ingredients must declare them by name on the ingredient list.

These GRAS conclusions do not affect the FDA's position on the addition of CBD and THC to food.

13. What is FDA's position on cannabis and cannabis-derived ingredients in cosmetics?

A. A cosmetic is defined in 201(i) as "(1) articles intended to be rubbed, poured, sprinkled, or sprayed on, introduced into, or otherwise applied to the human body or any part thereof for cleansing, beautifying, promoting attractiveness, or altering the appearance, and (2) articles intended for use as a component of any such articles; except that such term shall not include soap."

Under the FD&C Act, cosmetic products and ingredients are not subject to premarket approval by FDA, except for most color additives. Certain cosmetic ingredients are prohibited or restricted by regulation, but currently that is not the case for any cannabis or cannabis-derived ingredients. Ingredients not specifically addressed by regulation must nonetheless comply with all applicable requirements, and no ingredient – including a cannabis or cannabis-derived ingredient – can be used in a cosmetic if it causes the product to be adulterated or misbranded in any way. A cosmetic generally is adulterated if it bears or contains any poisonous or deleterious substance which may render it injurious to users under the conditions of use prescribed in the labeling, or under such conditions of use as are customary or usual (section 601(a) of the FD&C Act [21 U.S.C. § 361(a)]).

If a product is intended to affect the structure or function of the body, or to diagnose, cure, mitigate, treat or prevent disease, it is a drug, or possibly both a cosmetic and a drug, even if it affects the appearance. (See Question #3 for more information about drugs.)

FDA can take action if it has information that an ingredient or cosmetic product is unsafe to consumers. Consumers can report adverse events associated with cosmetic products via the FDA's MedWatch reporting system, either online or by phone at 1-800-FDA-1088, or by contacting your nearest FDA district office consumer complaint coordinator. For more information, please see the FDA's webpage on how to report a cosmetic-related complaint (</cosmetics/cosmetics-compliance-enforcement/how-report-cosmetic-related-complaint>).

14. Will FDA take action against cannabis or cannabis-related products that are in violation of the FD&C Act?

A. The FDA has sent warning letters (</news-events/public-health-focus/warning-letters-and-test-results-cannabidiol-related-products>) in the past to companies illegally selling CBD products that claimed to prevent, diagnose, treat, or cure serious diseases, such as cancer. Some of these products were in further violation of the FD&C Act because they were marketed as dietary supplements or because they involved the addition of CBD to food.

When a product is in violation of the FD&C Act, FDA considers many factors in deciding whether or not to initiate an enforcement action. Those factors include, among other things, agency resources and the threat to the public health. FDA also may consult with its federal and state partners in making decisions about whether to initiate a federal enforcement action.

15. Can I import or export cannabis-containing or cannabis-derived products?

A. General information about the import/export of drug products regulated by FDA (</drugs/guidance-compliance-regulatory-information/import-export-compliance-branch-iecb>) can be found online here. The Drug Enforcement Administration (<https://www.dea.gov/>) (DEA) is the federal agency responsible for enforcing the controlled substance laws and regulations in the U.S. and, as such, should be consulted with respect to any regulations/requirements they may have regarding the

import or export of products containing cannabis. Please see here for information about importing or exporting food ingredients (/food/guidance-regulation-food-and-dietary-supplements/food-imports-exports).

Regarding imports, if it appears that an article is adulterated, misbranded, in violation of section 505 of the FD&C Act, or prohibited from introduction or delivery for introduction into interstate commerce under section 301(ll) of the FD&C Act, such article will be refused admission (see section 801(a)(3) of the FD&C Act [21 U.S.C. § 381(a)(3)]).

Research and Expanded Access

16. What is FDA's role when it comes to the investigation of cannabis and cannabis-derived products for medical use?

A. To conduct clinical research that can lead to an approved new drug, including research using materials from plants such as cannabis, researchers need to work with the FDA and submit an IND application to the Center for Drug Evaluation and Research (CDER). The IND application process gives researchers a path to follow that includes regular interactions with the FDA to support efficient drug development while protecting the patients who are enrolled in the trials. For research for use as an animal drug product, researchers would establish an investigational new animal drug (INAD) file with the Center for Veterinary Medicine to conduct their research, rather than an IND with CDER.

As discussed above (see Question #2), the 2018 Farm Bill removed hemp from the CSA. This change may streamline the process for researchers to study cannabis and its derivatives, including CBD, that fall under the definition of hemp, which could speed the development of new drugs.

Conducting clinical research using cannabis-related substances that are scheduled by the DEA often involves interactions with several federal agencies. This includes: a registration administered by the DEA; obtaining the cannabis for research from NIDA, within the National Institutes of Health, or another DEA-registered source; and review by the FDA of the IND or INAD application and research protocol. Additionally:

- For a Schedule I controlled substance under the CSA, DEA provides researchers with investigator and protocol registrations and has Schedule I-level security requirements at the site cannabis will be studied.

- NIDA provides research-grade cannabis for scientific study. The agency is responsible for overseeing the cultivation of cannabis for medical research and has contracted with the University of Mississippi to grow cannabis for research at a secure facility. Cannabis of varying potencies and compositions is available. DEA also may allow additional growers (<https://www.federalregister.gov/documents/2016/08/12/2016-17955/applications-to-become-registered-under-the-controlled-substances-act-to-manufacture-marijuana-to>) to register with the DEA to produce and distribute cannabis for research purposes.
- Researchers work with the FDA and submit an IND application to the appropriate division in the Office of New Drugs in CDER depending on the therapeutic indication. Based on the results obtained in studies conducted at the IND stage, sponsors may submit a marketing application for formal approval of the drug.

17. Does the FDA object to the clinical investigation of cannabis for medical use?

A. No. The FDA believes that scientifically valid research conducted under an IND application is the best way to determine what patients could benefit from the use of drugs derived from cannabis. The FDA supports the conduct of that research by:

1. Providing information on the process needed to conduct clinical research using cannabis.
2. Providing information on the specific requirements needed to develop a drug that is derived from a plant such as cannabis. In December 2016, the FDA updated its Guidance for Industry: Botanical Drug Development (</regulatory-information/search-fda-guidance-documents/botanical-drug-development-guidance-industry>), which provides sponsors with guidance on submitting IND applications for botanical drug products.
3. Providing specific support for investigators interested in conducting clinical research using cannabis and its constituents as a part of the IND process through meetings and regular interactions throughout the drug development process.
4. Providing general support to investigators to help them understand and follow the procedures to conduct clinical research through the FDA Center for Drug Evaluation and Research's Small Business and Industry Assistance group

(/drugs/development-approval-process-drugs/cder-small-business-industry-assistance-sbia).

18. How can patients gain access to cannabis or cannabis-derived products for medical use through expanded access?

A. Expanded access (/news-events/public-health-focus/expanded-access) is a potential pathway for a patient with a serious or life-threatening disease or condition to try an investigational medical product (drug, biologic, or medical device) for treatment outside of clinical trials when there are no comparable or satisfactory therapies available. Manufacturers may be able to make investigational drugs available to individual patients in certain circumstances through expanded access, as described in the FD&C Act and implementing regulations.

19. Can patients gain access to cannabis or cannabis-derived products for medical use through Right to Try?

A. Information for patients on Right to Try (/patients/learn-about-expanded-access-and-other-treatment-options/right-try) (RTT) is available on our website. RTT is designed to facilitate access to certain investigational drugs through direct interactions between patients, their physicians and drug sponsors – FDA is not involved in these decisions. Sponsors developing drugs for life-threatening conditions are responsible for determining whether to make their products available to patients who qualify for access under RTT. If you are interested in RTT, you should discuss this pathway with your licensed physician. Companies who develop drugs and biologics, also known as sponsors, can provide information about whether their drug/biologic is considered an eligible investigational drug under RTT and if they are able to provide the drug/biologic under the RTT Act.

Children and Pregnant/Lactating Women

20. Does the FDA have concerns about administering a cannabis product to children?

A. We understand that parents are trying to find treatments for their children's medical conditions. However, the use of untested drugs can have unpredictable and unintended consequences. Caregivers and patients can be confident that FDA-approved drugs have been carefully evaluated for safety, efficacy, and quality, and are monitored by the FDA once they are on the market. The FDA continues to support sound, scientifically-based research into the medicinal uses of drug products

containing cannabis or cannabis-derived compounds, and will continue to work with companies interested in bringing safe, effective, and quality products to market. With the exception of Epidiolex, Marinol, and Syndros, no product containing cannabis or cannabis-derived compounds (either plant-based or synthetic) has been approved as safe and effective for use in any patient population, whether pediatric or adult.

21. Does the FDA have concerns about administering a cannabis product to pregnant and lactating women?

A. The FDA is aware that there are potential adverse health effects with use of cannabis products containing THC in pregnant or lactating women. Published scientific literature reports potential adverse effects of cannabis use in pregnant women, including fetal growth restriction, low birth weight, preterm birth, small-for-gestational age, neonatal intensive care unit (NICU) admission, and stillbirth. [1, 2, 3] Based on published animal research, there are also concerns that use of cannabis during pregnancy may negatively impact fetal brain development. [4, 5, 6] The American College of Obstetricians and Gynecologists (ACOG) recommends that women who are pregnant or contemplating pregnancy should be encouraged to discontinue cannabis use. In addition, ACOG notes that there are insufficient data to evaluate the effects of cannabis use on breastfed infants; therefore, cannabis use is discouraged when breastfeeding. [7] Pregnant and lactating women should talk with a health care provider about the potential adverse health effects of cannabis use.

22. What does the FDA think about making CBD available to children with epilepsy?

A. The FDA has approved Epidiolex, which contains a purified form of the drug substance CBD, for the treatment of seizures associated with Lennox-Gastaut syndrome or Dravet syndrome in patients 2 years of age and older. That means the FDA has concluded that this particular drug product is safe and effective for its intended use. Controlled clinical trials testing the safety and efficacy of a drug, along with careful review through the FDA's drug approval process, is the most appropriate way to bring cannabis-derived treatments to patients. Because of the adequate and well-controlled clinical studies that supported this approval, and the assurance of manufacturing quality standards, prescribers can have confidence in the drug's uniform strength and consistent delivery that support appropriate dosing needed for treating patients with these complex and serious epilepsy syndromes.

23. What should I do if my child eats something containing cannabis?

A. With the exception of products such as the hemp seed ingredients discussed in Question #12, which have been evaluated for safety, it is important to protect children from accidental ingestion of cannabis and cannabis-containing products. FDA recommends that these products are kept out of reach of children to reduce the risk of accidental ingestion. If the parent or caregiver has a reasonable suspicion that the child accidentally ingested products containing cannabis, the child should be taken to a physician or emergency department, especially if the child acts in an unusual way or is/feels sick.

Pets and other Animals

24. I've seen cannabis products being marketed for pets. Are they safe?

A. FDA is aware of some cannabis products being marketed as animal health products. We want to stress that FDA has not approved cannabis for any use in animals, and the agency cannot ensure the safety or effectiveness of these products. For these reasons, FDA cautions pet-owners against the use of such products and recommends that you talk with your veterinarian about appropriate treatment options for your pet.

Signs that your pet may be suffering adverse effects from ingesting cannabis may include lethargy, depression, heavy drooling, vomiting, agitation, tremors, and convulsions.

If you have concerns that your pet is suffering adverse effects from ingesting cannabis or any substance containing cannabis, consult your veterinarian, local animal emergency hospital or an animal poison control center immediately.

While the agency is aware of reports of pets consuming various forms of cannabis, to date, FDA has not directly received any reports of adverse events associated with animals given cannabis products. However, adverse events from accidental ingestion are well-documented in scientific literature. If you feel your animal has suffered from ingesting cannabis, we encourage you to report the adverse event to the FDA. Please visit Reporting Information about Animal Drugs and Devices (/animal-veterinary/report-problem/how-report-animal-drug-side-effects-and-product-problems) to learn more about how to report an adverse event related to an animal drug or for how to report an adverse event or problem with a pet food.

25. Can hemp be added to animal food?

A. All ingredients in animal food must be the subject of an approved food additive petition or generally recognized as safe (GRAS) for their intended use in the intended species. If an animal food contains an ingredient that is not the subject of an approved food additive petition or GRAS for its intended use in the intended species, that animal food would be adulterated under section 402(a)(2)(C)(i) of the FD&C Act [21 U.S.C. § 342(a)(2)(C)(i)]. In coordination with state feed control officials, CVM also recognizes ingredients listed in the Official Publication (OP) of the Association of American Feed Control Officials (AAFCO) as being acceptable for use in animal food. At this time, there are no approved food additive petitions or ingredient definitions listed in the AAFCO OP for any substances derived from hemp, and we are unaware of any GRAS conclusions regarding the use of any substances derived from hemp in animal food. Learn more about animal food ingredient submissions (/animal-veterinary/safety-health/safe-feed) here.

With respect to products labeled to contain "hemp" that may also contain THC or CBD, as mentioned above it is a prohibited act under section 301(l) of the FD&C Act to introduce or deliver for introduction into interstate commerce any animal food to which THC or CBD has been added.

26. Can approved human drugs containing CBD or synthetic THC be used extralabel in animals?

A. The Animal Medicinal Drug Use Clarification Act of 1994 (AMDUCA), permits veterinarians to prescribe extralabel uses of approved human and animal drugs for animals under certain conditions. Extralabel use must comply with all the provisions of AMDUCA and its implementing regulation at 21 CFR § 530. Among other limitations, these provisions allow extralabel use of a drug only on the lawful order of a licensed veterinarian in the context of a valid veterinarian-client-patient relationship and only in circumstances when the health of an animal is threatened or suffering, or death may result from failure to treat.

In addition, under 21 CFR 530.20, extralabel use of an approved human drug in a food-producing animal is not permitted if an animal drug approved for use in food-producing animals can be used in an extralabel manner for the use. In addition, under 21 CFR 530.20(b)(2), if scientific information on the human food safety aspect of the use of the approved human drug in food-producing animals is not available, the veterinarian must take appropriate measures to ensure that the animal and its food products will not enter the human food supply.

For more information on extralabel use of FDA approved drugs in animals, see [Extralabel Use of FDA Approved Drugs In Animals \(/animal-veterinary/acts-rules-regulations/animal-medicinal-drug-use-clarification-act-1994-amduca\)](#).

[1] Gray, et al. Identifying Prenatal Cannabis Exposure and Effects of Concurrent Tobacco Exposure on Neonatal Growth. *Clinical Chemistry*. 2010; 56(9): 1442-1450.


[2] Gunn, et al. Prenatal Exposure to cannabis and maternal and child health outcomes: a systematic review and meta-analysis. *BMJ Open*. 2016; 6:e009986.

[3] Hayatbakhsh, et al. Birth Outcomes associated with cannabis use before and during pregnancy. *Pediatric Research*. 2012; 71 (2): 215-219.

[4] Silva, et al. Prenatal tetrahydrocannabinol (THC) alters cognitive function and amphetamine response from weaning to adulthood in the rat. *Neurotoxicol and Teratol* 2012; 34(1): 63-71.

[5] Trezza, et al. Effects of perinatal exposure to delta-9-tetrahydrocannabinol on the emotional reactivity of the offspring: a longitudinal behavioral study in Wistar rats. *Psychopharmacology (Berl)* 2008; 198(4): 529-537.

[6] Campolongo, et al. Perinatal exposure to delta-9-tetrahydrocannabinol causes enduring cognitive deficits associated with alteration of cortical gene expression and neurotransmission in rats. *Addict Biol* 2007; 12(3-4): 485-495.

[7] ACOG Committee Opinion: Marijuana Use During Pregnancy and Lactation (<https://www.acog.org/Clinical-Guidance-and-Publications/Committee-Opinions/Committee-on-Obstetric-Practice/Marijuana-Use-During-Pregnancy-and-Lactation>)  (<http://www.fda.gov/about-fda/website-policies/website-disclaimer>)

FDA NEWS RELEASE

FDA warns 15 companies for illegally selling various products containing cannabidiol as agency details safety concerns

Violations include marketing unapproved new human and animal drugs, selling CBD products as dietary supplements, and adding CBD to human, animal foods

For Immediate Release:

November 25, 2019

Today, the U.S. Food and Drug Administration issued warning letters to 15 companies for illegally selling products containing cannabidiol (CBD) in ways that violate the Federal Food, Drug, and Cosmetic Act (FD&C Act). The FDA also published a revised Consumer Update (</consumers/consumer-updates/what-you-need-know-and-what-were-working-find-out-about-products-containing-cannabis-or-cannabis>) detailing safety concerns about CBD products more broadly. Based on the lack of scientific information supporting the safety of CBD in food, the FDA is also indicating today that it cannot conclude that CBD is generally recognized as safe (GRAS) among qualified experts for its use in human or animal food.

Today's actions come as the FDA continues to explore potential pathways for various types of CBD products to be lawfully marketed. This includes ongoing work to obtain and evaluate information to address outstanding questions related to the safety of CBD products, while maintaining the agency's rigorous public health standards. The FDA plans to provide an update on its progress regarding the agency's approach to these products in the coming weeks.

"As we work quickly to further clarify our regulatory approach for products containing cannabis and cannabis-derived compounds like CBD, we'll continue to monitor the marketplace and take action as needed against companies that violate the law in ways that raise a variety of public health concerns. In line with our mission to protect the public, foster innovation, and promote consumer confidence, this overarching approach regarding CBD is the same as the FDA would take for any other substance that we regulate," said FDA Principal Deputy Commissioner Amy Abernethy, M.D.,

Ph.D. “We remain concerned that some people wrongly think that the myriad of CBD products on the market, many of which are illegal, have been evaluated by the FDA and determined to be safe, or that trying CBD ‘can’t hurt.’ Aside from one prescription drug approved to treat two pediatric epilepsy disorders, these products have not been approved by the FDA and we want to be clear that a number of questions remain regarding CBD’s safety – including reports of products containing contaminants, such as pesticides and heavy metals – and there are real risks that need to be considered. We recognize the significant public interest in CBD and we must work together with stakeholders and industry to fill in the knowledge gaps about the science, safety and quality of many of these products.”

Many unanswered questions and data gaps about CBD toxicity exist, and some of the available data raise serious concerns about potential harm from CBD. The revised Consumer Update (</consumers/consumer-updates/what-you-need-know-and-what-were-working-find-out-about-products-containing-cannabis-or-cannabis>) outlines specific safety concerns related to CBD products, including potential liver injury, interactions with other drugs, drowsiness, diarrhea, and changes in mood. In addition, studies in animals have shown that CBD can interfere with the development and function of testes and sperm, decrease testosterone levels and impair sexual behavior in males. Questions also remain about cumulative use of CBD and about CBD’s impacts on vulnerable populations such as children and pregnant or breastfeeding women.

CBD is marketed in a variety of product types, such as oil drops, capsules, syrups, food products such as chocolate bars and teas, and topical lotions and creams. As outlined in the warning letters issued today, these particular companies are using product webpages, online stores and social media to market CBD products in interstate commerce in ways that violate the FD&C Act, including marketing CBD products to treat diseases or for other therapeutic uses for humans and/or animals. Other violations include marketing CBD products as dietary supplements and adding CBD to human and animal foods.

The companies receiving warning letters are:

- Koi CBD LLC (</inspections-compliance-enforcement-and-criminal-investigations/warning-letters/koi-cbd-llc-593391-11222019>), of Norwalk, California

- Pink Collections Inc. (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/mr-pink-collections-llc-593395-11222019), of Beverly Hills, California
- Noli Oil (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/noli-oil-llc-593497-11222019), of Southlake, Texas
- Natural Native LLC (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/natural-native-llc-593385-11222019), of Norman, Oklahoma
- Whole Leaf Organics LLC (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/whole-leaf-organics-llc-593176-11222019), of Sherman Oaks, California
- Infinite Product Company LLLP (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/infinite-product-company-lllp-dba-infinite-cbd-593175-11222019), doing business as Infinite CBD, of Lakewood, Colorado
- Apex Hemp Oil LLC (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/apex-hemp-oil-llc-592691-11222019), of Redmond, Oregon
- Bella Rose Labs (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/bella-rose-labs-594246-11222019), of Brooklyn, New York
- Sunflora Inc. (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/sunflora-inc-the-cbd-store-llc-dba-your-cbd-store-585390-11222019), of Tampa, Florida/Your CBD Store, of Bradenton, Florida
- Healthy Hemp Strategies LLC, doing business as Curapure (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/cdr-nutritional-inc-593398-11222019), of Concord, California
- Private I Salon LLC (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/private-i-salon-llc-593479-11222019), of Charlotte, North Carolina
- Organix Industries Inc., doing business as Plant Organix (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/organix-

industries-inc-dba-plant-organix-593512-11222019), of San Bernardino, California

- Red Pill Medical Inc. (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/red-pill-medical-inc-593389-11222019), of Phoenix, Arizona
- Sabai Ventures Ltd. (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/sabai-ventures-ltd-593865-11222019), of Los Angeles, California
- Daddy Burt LLC (/inspections-compliance-enforcement-and-criminal-investigations/warning-letters/daddy-burt-hemp-co-593866-11222019), doing business as Daddy Burt Hemp Co., of Lexington, Kentucky

The FDA has previously sent warning letters (/news-events/public-health-focus/warning-letters-and-test-results-cannabidiol-related-products) to other companies illegally selling CBD products in interstate commerce that claimed to prevent, diagnose, mitigate, treat or cure serious diseases, such as cancer, or otherwise violated the FD&C Act. Some of these products were in further violation because CBD was added to food, and some of the products were also marketed as dietary supplements despite products which contain CBD not meeting the definition of a dietary supplement.

Under the FD&C Act, any product intended to treat a disease or otherwise have a therapeutic or medical use, and any product (other than a food) that is intended to affect the structure or function of the body of humans or animals, is a drug. The FDA has not approved any CBD products other than one prescription human drug product (/news-events/press-announcements/fda-approves-first-drug-comprised-active-ingredient-derived-marijuana-treat-rare-severe-forms) to treat rare, severe forms of epilepsy. There is very limited information for other marketed CBD products, which likely differ in composition from the FDA-approved product and have not been evaluated for potential adverse effects on the body.

Unlike drugs approved by the FDA, there has been no FDA evaluation of whether these unapproved products are effective for their intended use, what the proper dosage might be, how they could interact with FDA-approved drugs, or whether they have dangerous side effects or other safety concerns. In addition, the manufacturing process of unapproved CBD drug products has not been subject to FDA review as part of the human or animal drug approval processes. Consumers may also put off getting important medical care, such as proper diagnosis, treatment and supportive care due

to unsubstantiated claims associated with CBD products. For that reason, it's important that consumers talk to a health care professional about the best way to treat diseases or conditions with existing, approved treatment options.

Additionally, some of the products outlined in the warning letters issued today raise other legal and public health concerns:

- Some of the products are marketed for infants and children – a vulnerable population that may be at greater risk for adverse reactions due to differences in the ability to absorb, metabolize, distribute or excrete a substance such as CBD.
- Some of the products are foods to which CBD has been added. Under the FD&C Act, it is illegal to introduce into interstate commerce any human or animal food to which certain drug ingredients, such as CBD, have been added. In addition, the FDA is not aware of any basis to conclude that CBD is GRAS among qualified experts for its use in human or animal food. There also is no food additive regulation which authorizes the use of CBD as an ingredient in human food or animal food, and the agency is not aware of any other exemption from the food additive definition that would apply to CBD. CBD is therefore an unapproved food additive, and its use in human or animal food violates the FD&C Act for reasons that are independent of its status as a drug ingredient.
- Some of the products are marketed as dietary supplements. However, CBD products cannot be dietary supplements because they do not meet the definition of a dietary supplement under the FD&C Act.
- One product outlined in a warning letter to Apex Hemp Oil LLC is intended for food-producing animals. The agency remains concerned about the safety of human food products (e.g. meat, milk, and eggs) from animals that consume CBD, as there is a lack of data establishing safe CBD residue levels.

The FDA has requested responses from the companies within 15 working days stating how the companies will correct the violations. Failure to correct the violations promptly may result in legal action, including product seizure and/or injunction.

The FDA encourages human and animal health care professionals and consumers to report adverse reactions associated with these or similar products to the agency's MedWatch program (</safety/medwatch-fda-safety-information-and-adverse-event-reporting-program/reporting-serious-problems-fda>).

The FDA, an agency within the U.S. Department of Health and Human Services, promotes and protects the public health by, among other things, assuring the safety, effectiveness, and security of human and veterinary drugs, vaccines and other biological products for human use, and medical devices. The agency also is responsible for the safety and security of our nation's food supply, cosmetics, dietary supplements, products that give off electronic radiation, and for regulating tobacco products.

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Related Information

- [What You Need to Know \(And What We're Working to Find Out\) About Products Containing Cannabis or Cannabis-derived Compounds, Including Cannabidiol \(CBD\) \(/consumers/consumer-updates/what-you-need-know-and-what-were-working-find-out-about-products-containing-cannabis-or-cannabis\)](#)
- [FDA is Committed to Sound, Science-based Policy on CBD \(/news-events/fda-voices-perspectives-fda-leadership-and-experts/fda-committed-sound-science-based-policy-cbd\)](#)
- [FDA Regulation of Cannabis and Cannabis-Derived Products, Including Cannabidiol \(CBD\) \(/news-events/public-health-focus/fda-regulation-cannabis-and-cannabis-derived-products-including-cannabidiol-cbd\)](#)

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