



# Cannabis Safety Certification Requirements

PJRFSI Cannabis Safety Standard for Retail





# Note to All Readers - A Legal Statement

This document was created based on industry norms and regulatory mandates. PJRFSI accepts no liability for any misprints or omissions on the information, including any information or opinion contained in this document. PJRFSI aims to ensure that information in this and other publications are accurate and up to date, but PJRFSI shall not be held liable for any damages or claims in connection with this document or any information contained in it.

## Copyright

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the publisher, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law.



PJRFSI accepts no liability for any error or omission on any such information or opinion, including any information or opinion contained in this publication.



# Table of Contents

Introduction ..... 4

Good Manufacturing Practice

Requirements for Cannabis Product Retail

..... 5

1.0 Personnel (117.10) ..... 5

2.0 Plants & Grounds (117.20)..... 6

3.0 Sanitary Operations (117.35)..... 7

4.0 Sanitary Facilities & Controls (117.37)... 9

5.0 Equipment and Utensils (117.40)..... 9

6.0 Processes & Controls (117.80)..... 11

7.0 Warehousing and Distribution (117.93)..... 13

8.0 Defect Action Level (117.110) ..... 14

US State Regulations ..... 15

PJRFSI accepts no liability for any error or omission on any such information or opinion, including any information or opinion contained in this publication.





# Introduction

Perry Johnson Registrars Food Safety, Inc. (PJRFSI) is committed to providing value-added food safety certification to clients. Our entire team believes that rigor and consistency during audit activities leads to higher levels of customer and end user satisfaction. PJRFSI is dedicated to uphold the highest standards of professionalism, technical competence and integrity throughout the life cycle of the audit process. We apply the principles of quality management, collaboration and organizational excellence in all of our office and field activities and comply with the requirements set forth by the international standards organizations, accreditation bodies and other affected parties. Through this dedication, we have created and maintain a work environment which provides opportunities and a culture of continual improvement, learning and development for clients, auditors, staff and stakeholders within the food chain.

PJRFSI Cannabis Safety Standard for Manufacturing is based on FDA 21 CFR Part 117 Subpart B GMP (good manufacturing practice) principles. The standard covers the manufacturer of cannabis products including marijuana-infused products, CBD, and hemp. The cannabis safety audit will include this standard's requirements as well as state-specific guidelines for cannabis product manufacturing.

PJRFSI does not collect samples, perform product testing, or perform analysis. PJRFSI Cannabis Safety Certification Program is a Cannabis Safety System Certification and does not guarantee the safety of all products at all times.



PJRFSI accepts no liability for any error or omission on any such information or opinion, including any information or opinion contained in this publication.

# Good Manufacturing Practice (GMP) Requirements for Cannabis Product Retail

## 1.0 Personnel (117.10)

**1.1 Disease control:** Any person who, by medical examination or supervisory observation, is shown to have, or appears to have, an illness, open lesion, including boils, sores, or infected wounds, or any other abnormal source of microbial contamination by which there is a reasonable possibility of food, food-contact surfaces, or food-packaging materials becoming contaminated, must be excluded from any operations which may be expected to result in such contamination until the condition is corrected, unless conditions such as open lesions, boils, and infected wounds are adequately covered (e.g., by an impermeable cover). Personnel must be instructed to report such health conditions to their supervisors.

**1.2 Cleanliness.** All persons working in direct contact with food, food-contact surfaces, and food-packaging materials must conform to hygienic practices while on duty to the extent necessary to protect against allergen cross-contact and against contamination of food. The methods for maintaining cleanliness include:

- Wearing outer garments suitable to the operation in a manner that protects against allergen cross-contact and against the contamination of food, food contact surfaces, or food-packaging materials.
- Maintaining adequate personal cleanliness.
- Washing hands thoroughly (and sanitizing if necessary to protect against contamination with undesirable microorganisms) in an adequate hand-washing facility before starting work, after each absence from the work station, and at any other time when the hands may have become soiled or contaminated.
- Removing all unsecured jewelry and other objects that might fall into food, equipment, or containers, and removing hand jewelry that cannot be adequately sanitized during periods in which food is manipulated by hand. If such hand jewelry cannot be removed, it may be covered by material which can be maintained in an intact, clean, and sanitary condition and which effectively protects against the contamination by these objects of the food, food-contact surfaces, or food-packaging materials.
- Maintaining gloves, if they are used in food handling, in an intact, clean, and sanitary condition.
- Wearing, where appropriate, in an effective manner, hair nets, headbands, caps, beard covers, or other effective hair restraints.
- Storing clothing or other personal belongings in areas other than where food is exposed or where equipment or utensils are washed.
- Confining the following to areas other than where food may be exposed or where equipment or utensils are washed: eating food, chewing gum, drinking beverages, or using tobacco.



- Taking any other necessary precautions to protect against allergen cross-contact and against contamination of food, food-contact surfaces, or food packaging materials with microorganisms or foreign substances (including perspiration, hair, cosmetics, tobacco, chemicals, and medicines applied to the skin).

## 2.0 Plant and Grounds (117.20)

**2.1 Grounds.** The grounds about a food plant under the control of the operator must be kept in a condition that will protect against the contamination of food. The methods for adequate maintenance of grounds must include:

- Properly storing equipment, removing litter and waste, and cutting weeds or grass within the immediate vicinity of the plant that may constitute an attractant, breeding place, or harborage for pests.
- Maintaining roads, yards, and parking lots so that they do not constitute a source of contamination in areas where food is exposed.
- Adequately draining areas that may contribute contamination to food by seepage, foot-borne filth, or providing a breeding place for pests.
- Operating systems for waste treatment and disposal in an adequate manner so that they do not constitute a source of contamination in areas where food is exposed.
- If the plant grounds are bordered by grounds not under the operator's control and not maintained in the manner described in paragraphs (a)(1) through (4) of this section, care must be exercised in the plant by inspection, extermination, or other means to exclude pests, dirt, and filth that may be a source of food contamination.

**2.2 Plant construction and design.** The plant must be suitable in size, construction, and design to facilitate maintenance and sanitary operations for food-production purposes (i.e., manufacturing, processing, packing, and holding). The plant must:

- Provide adequate space for such placement of equipment and storage of materials as is necessary for maintenance, sanitary operations, and the production of safe food.
- Permit the taking of adequate precautions to reduce the potential for allergen cross-contact and for contamination of food, food-contact surfaces, or food-packaging materials with microorganisms, chemicals, filth, and other extraneous material. The potential for allergen cross-contact and for contamination may be reduced by adequate food safety controls and operating practices or effective design, including the separation of operations in which allergen cross-contact and contamination are likely to occur, by one or more of the following means: location, time, partition, air flow systems, dust control systems, enclosed systems, or other effective means.
- Permit the taking of adequate precautions to protect food in installed outdoor bulk vessels by any effective means, including:
  - Using protective coverings
  - Controlling areas over and around the vessels to eliminate harborages for pests
  - Checking on a regular basis for pests and pest infestation
  - Skimming fermentation vessels, as necessary

- Be constructed in such a manner that floors, walls, and ceilings may be adequately cleaned and kept clean and kept in good repair; that drip or condensate from fixtures, ducts and pipes does not contaminate food, food contact surfaces, or food-packaging materials; and that aisles or working spaces are provided between equipment and walls and are adequately unobstructed and of adequate width to permit employees to perform their duties and to protect against contaminating food, food-contact surfaces, or food-packaging materials with clothing or personal contact.
- Provide adequate lighting in hand washing areas, dressing and locker rooms, and toilet rooms and in all areas where food is examined, manufactured, processed, packed, or held and where equipment or utensils are cleaned; and provide shatter-resistant light bulbs, fixtures, skylights, or other glass suspended over exposed food in any step of preparation or otherwise protect against food contamination in case of glass breakage.
- Provide adequate ventilation or control equipment to minimize dust, odors and vapors (including steam and noxious fumes) in areas where they may cause allergen cross-contact or contaminate food; and locate and operate fans and other air-blowing equipment in a manner that minimizes the potential for allergen cross-contact and for contaminating food, food packaging materials, and food-contact surfaces.
- Provide, where necessary, adequate screening or other protection against pests.

### 3.0 Sanitary Operations (117.35)

**3.1 General maintenance:** Buildings, fixtures, and other physical facilities of the plant must be maintained in a clean and sanitary condition and must be kept in repair adequate to prevent food from becoming adulterated. Cleaning and sanitizing of utensils and equipment must be conducted in a manner that protects against allergen cross-contact and against contamination of food, food contact surfaces, or food-packaging materials.

**3.2 Substances used in cleaning and sanitizing; storage of toxic materials:**

- Cleaning compounds and sanitizing agents used in cleaning and sanitizing procedures must be free from undesirable microorganisms and must be safe and adequate under the conditions of use. Compliance with this requirement must be verified by any effective means, including purchase of these substances under a letter of guarantee or certification or examination of these substances for contamination. Only the following toxic materials may be used or stored in a plant where food is processed or exposed:
  - Those required to maintain clean and sanitary conditions;
  - (ii) Those necessary for use in laboratory testing procedures;
  - (iii) Those necessary for plant and equipment maintenance and operation; and
  - (iv) Those necessary for use in the plant's operations.



(2) Toxic cleaning compounds, sanitizing agents, and pesticide chemicals must be identified, held, and stored in a manner that protects against contamination of food, food-contact surfaces, or food-packaging materials

**3.3 Pest control:** Pests must not be allowed in any area of a food plant. Guard, guide, or pest-detecting dogs may be allowed in some areas of a plant if the presence of the dogs is unlikely to result in contamination of food, food contact surfaces, or food-packaging materials.

- Effective measures must be taken to exclude pests from the manufacturing, processing, packing, and holding areas and to protect against the contamination of food on the premises by pests. The use of pesticides to control pests in the plant is permitted only under precautions and restrictions that will protect against the contamination of food, food-contact surfaces, and food packaging materials.

**3.4 Sanitation of food-contact surfaces.** All food-contact surfaces, including utensils and food-contact surfaces of equipment, must be cleaned as frequently as necessary to protect against allergen cross-contact and against contamination of food.

- Food-contact surfaces used for manufacturing/processing, packing, or holding low-moisture food must be in a clean, dry, sanitary condition before use. When the surfaces are wet-cleaned, they must, when necessary, be sanitized and thoroughly dried before subsequent use.
- In wet processing, when cleaning is necessary to protect against allergen cross-contact or the introduction of microorganisms into food, all food contact surfaces must be cleaned and sanitized before use and after any interruption during which the food contact surfaces may have become contaminated. Where equipment and utensils are used in a continuous production operation, the utensils and food-contact surfaces of the equipment must be cleaned and sanitized as necessary.
- Single-service articles (such as utensils intended for one-time use, paper cups, and paper towels) must be stored, handled, and disposed of in a manner that protects against allergen cross-contact and against contamination of food, food-contact surfaces, or food packaging materials.

**3.5 Sanitation of non-food-contact surfaces.** Non-food-contact surfaces of equipment used in the operation of a food plant must be cleaned in a manner and as frequently as necessary to protect against allergen cross-contact and against contamination of food, food contact surfaces, and food-packaging materials.

**3.6 Storage and handling of cleaned portable equipment and utensils.** Cleaned and sanitized portable equipment with food-contact surfaces and utensils must be stored in a location and manner that protects food-contact surfaces from allergen cross-contact and from contamination.



#### 4.0 Sanitary facilities and controls (117.37)

**4.1 Water supply.** The water supply must be adequate for the operations intended and must be derived from an adequate source. Any water that contacts food, food-contact surfaces, or food-packaging materials must be safe and of adequate sanitary quality. Running water at a suitable temperature, and under pressure as needed, must be provided in all areas where required for the processing of food, for the cleaning of equipment, utensils, and food packaging materials, or for employee sanitary facilities.

**4.2 Plumbing:** Plumbing must be of adequate size and design and adequately installed and maintained to:

- Carry adequate quantities of water to required locations throughout the plant
- Properly convey sewage and liquid disposable waste from the plant
- Avoid constituting a source of contamination to food, water supplies, equipment, or utensils or creating an unsanitary condition
- Provide adequate floor drainage in all areas where floors are subject to flooding-type cleaning or where normal operations release or discharge water or other liquid waste on the floor
- Provide that there is not back-flow from, or cross-connection between, piping systems that discharge waste water or sewage and piping systems that carry water for food or food manufacturing

**4.3. Sewage disposal:** Sewage must be disposed of into an adequate sewerage system or disposed of through other adequate means.

**4.4 Toilet facilities:** Each plant must provide employees with adequate, readily accessible toilet facilities. Toilet facilities must be kept clean and must not be a potential source of contamination of food, food-contact surfaces, or food-packaging materials.

**4.5 Hand-washing facilities:** Each plant must provide hand-washing facilities designed to ensure that an employee's hands are not a source of contamination of food, food-contact surfaces, or food-packaging materials, by providing facilities that are adequate, convenient, and furnish running water at a suitable temperature.

**4.6 Rubbish and offal disposal:** Rubbish and any offal must be so conveyed, stored, and disposed of as to minimize the development of odor, minimize the potential for the waste becoming an attractant and harborage or breeding place for pests, and protect against contamination of food, food contact surfaces, food-packaging materials, water supplies, and ground surfaces.

#### 5.0 Equipment and Utensils (117.40)

**5.1 All plant equipment and utensils used in manufacturing,** processing, packing, or holding food must be so designed and of such material and workmanship as to be adequately cleanable, and must be adequately maintained to protect against allergen cross-contact and contamination.



- Equipment and utensils must be designed, constructed, and used appropriately to avoid the adulteration of food with lubricants, fuel, metal fragments, contaminated water, or any other contaminants.
- Equipment must be installed so as to facilitate the cleaning and maintenance of the equipment and of adjacent spaces.
- Equipment and utensils must be designed, constructed, and used appropriately to avoid the adulteration of food with lubricants, fuel, metal fragments, contaminated water, or any other contaminants.
- Equipment must be installed so as to facilitate the cleaning and maintenance of the equipment and of adjacent spaces.
- Food-contact surfaces must be corrosion-resistant when in contact with food.
- Food-contact surfaces must be made of nontoxic materials and designed to withstand the environment of their intended use and the action of food, and, if applicable, cleaning compounds, sanitizing agents, and cleaning procedures.
- Food-contact surfaces must be maintained to protect food from allergen cross-contact and from being contaminated by any source, including unlawful indirect food additives.

**5.2 Seams on food-contact surfaces** must be smoothly bonded or maintained so as to minimize accumulation of food particles, dirt, and organic matter and thus minimize the opportunity for growth of microorganisms and allergen cross-contact.

**5.3 Equipment that is in areas where food is manufactured,** processed, packed, or held and that does not come into contact with food must be so constructed that it can be kept in a clean and sanitary condition.

**5.4 Holding, conveying, and manufacturing systems,** including gravimetric, pneumatic, closed, and automated systems, must be of a design and construction that enables them to be maintained in an appropriate clean and sanitary condition.

**5.5 Each freezer and cold storage compartment** used to store and hold food capable of supporting growth of microorganisms must be fitted with an indicating thermometer, temperature measuring device, or temperature recording device so installed as to show the temperature accurately within the compartment.

**5.6 Instruments and controls** used for measuring, regulating, or recording temperatures, pH, acidity, water activity, or other conditions that control or prevent the growth of undesirable microorganisms in food must be accurate and precise and adequately maintained, and adequate in number for their designated uses.

**5.7 Compressed air or other gases** mechanically introduced into food or used to clean food-contact surfaces or equipment must be treated in such a way that food is not contaminated with unlawful indirect food additives.



## 6.0 Processes and controls (117.80)

### 6.1 General

- All operations in the manufacturing, processing, packing, and holding of food (including operations directed to receiving, inspecting, transporting, and segregating) must be conducted in accordance with adequate sanitation principles.
- Appropriate quality control operations must be employed to ensure that food is suitable for human consumption and that food-packaging materials are safe and suitable.-Overall sanitation of the plant must be under the supervision of one or more competent individuals assigned responsibility for this function.
- Adequate precautions must be taken to ensure that production procedures do not contribute to allergen cross-contact and to contamination from any source.
- Chemical, microbial, or extraneous-material testing procedures must be used where necessary to identify sanitation failures or possible allergen cross-contact and food contamination.
- All food that has become contaminated to the extent that it is adulterated must be rejected, or if appropriate, treated or processed to eliminate the contamination.

### 6.2 Raw materials and other ingredients.

- Raw materials and other ingredients must be inspected and segregated or otherwise handled as necessary to ascertain that they are clean and suitable for processing into food and must be stored under conditions that will protect against allergen cross-contact and against contamination and minimize deterioration. Raw materials must be washed or cleaned as necessary to remove soil or other contamination. Water used for washing, rinsing, or conveying food must be safe and of adequate sanitary quality. Water may be reused for washing, rinsing, or conveying food if it does not cause allergen cross-contact or increase the level of contamination of the food.
- Raw materials and other ingredients must either not contain levels of microorganisms that may render the food injurious to the health of humans, or they must be pasteurized or otherwise treated during manufacturing operations so that they no longer contain levels that would cause the product to be adulterated.
- Raw materials and other ingredients susceptible to contamination with aflatoxin or other natural toxins must comply with FDA regulations for poisonous or deleterious substances before these raw materials or other ingredients are incorporated into finished food.
- Raw materials, other ingredients, and rework susceptible to contamination with pests, undesirable microorganisms, or extraneous material must comply with applicable FDA regulations for natural or unavoidable defects if a manufacturer wishes to use the materials in manufacturing food.
- Raw materials, other ingredients, and rework must be held in bulk, or in containers designed and constructed so as to protect against allergen cross contact and against contamination and must be held at such temperature and relative humidity and in such a manner as to prevent the food from becoming adulterated. Material scheduled for rework must be identified as such.



- Frozen raw materials and other ingredients must be kept frozen. If thawing is required prior to use, it must be done in a manner that prevents the raw materials and other ingredients from becoming adulterated.
- Liquid or dry raw materials and other ingredients received and stored in bulk form must be held in a manner that protects against allergen cross-contact and against contamination.
- Raw materials and other ingredients that are food allergens, and rework that contains food allergens, must be identified and held in a manner that prevents allergen cross-contact.

### 6.3 Manufacturing operations.

- Equipment and utensils and food containers must be maintained in an adequate condition through appropriate cleaning and sanitizing, as necessary. Insofar as necessary, equipment must be taken apart for thorough cleaning.
- All food manufacturing, processing, packing, and holding must be conducted under such conditions and controls as are necessary to minimize the potential for the growth of microorganisms, allergen cross-contact, contamination of food, and deterioration of food.
- Food that can support the rapid growth of undesirable microorganisms must be held at temperatures that will prevent the food from becoming adulterated during manufacturing, processing, packing, and holding.
- Measures such as sterilizing, irradiating, pasteurizing, cooking, freezing, refrigerating, controlling pH, or controlling aw that are taken to destroy or prevent the growth of undesirable microorganisms must be adequate under the conditions of manufacture, handling, and distribution to prevent food from being adulterated.
- Work-in-process and rework must be handled in a manner that protects against allergen cross-contact, contamination, and growth of undesirable microorganisms.
- Effective measures must be taken to protect finished food from allergen cross-contact and from contamination by raw materials, other ingredients, or refuse. When raw materials, other ingredients, or refuse are unprotected, they must not be handled simultaneously in a receiving, loading, or shipping area if that handling could result in allergen cross-contact or contaminated food. Food transported by conveyor must be protected against allergen cross-contact and against contamination as necessary.
- Equipment, containers, and utensils used to convey, hold, or store raw materials and other ingredients, work-in-process, rework, or other food must be constructed, handled, and maintained during manufacturing, processing, packing, and holding in a manner that protects against allergen cross-contact and against contamination.
- Adequate measures must be taken to protect against the inclusion of metal or other extraneous material in food.
- Food, raw materials, and other ingredients that are adulterated:
  - (i) Must be disposed of in a manner that protects against the contamination of other food; or
  - (ii) If the adulterated food is capable of being reconditioned, it must be:
    - o Reconditioned (if appropriate) using a method that has been proven to be effective; or



- o Reconditioned (if appropriate) and reexamined and subsequently found not to be adulterated within the meaning of the Federal Food, Drug, and Cosmetic Act before being incorporated into other food.
- Steps such as washing, peeling, trimming, cutting, sorting and inspecting, mashing, dewatering, cooling, shredding, extruding, drying, whipping, defatting, and forming must be performed so as to protect food against allergen cross-contact and against contamination. Food must be protected from contaminants that may drip, drain, or be drawn into the food.
- Heat blanching, when required in the preparation of food capable of supporting microbial growth, must be effected by heating the food to the required temperature, holding it at this temperature for the required time, and then either rapidly cooling the food or passing it to subsequent manufacturing without delay. Growth and contamination by thermophilic microorganisms in blanchers must be minimized by the use of adequate operating temperatures and by periodic cleaning and sanitizing as necessary.
- Batters, breading, sauces, gravies, dressings, dipping solutions, and other similar preparations that are held and used repeatedly over time must be treated or maintained in such a manner that they are protected against allergen cross-contact and against contamination, and minimizing the potential for the growth of undesirable microorganisms.
- Filling, assembling, packaging, and other operations must be performed in such a way that the food is protected against allergen cross-contact, contamination and growth of undesirable microorganisms.
- Food, such as dry mixes, nuts, intermediate moisture food, and dehydrated food, that relies principally on the control of aw for preventing the growth of undesirable microorganisms must be processed to and maintained at a safe moisture level.
- Food, such as acid and acidified food, that relies principally on the control of pH for preventing the growth of undesirable microorganisms must be monitored and maintained at a pH of 4.6 or below.
- When ice is used in contact with food, it must be made from water that is safe and of adequate sanitary quality in accordance with 4.1 Water Supply (117.37(a)), and must be used only if it has been manufactured in accordance with current good manufacturing practice as outlined in this part.

## 7.0 Warehousing and Distribution (117.93)

**7.1 Storage and transportation of food** must be under conditions that will protect against allergen cross-contact and against biological, chemical (including radiological), and physical contamination of food, as well as against deterioration of the food and the container.



## 8.0 Defect Action Level (117.110)

8.1 The manufacturer, processor, packer, and holder of food must at all times utilize quality control operations that reduce natural or unavoidable defects to the lowest level currently feasible.

8.2 The mixing of a food containing defects at levels that render that food adulterated with another lot of food is not permitted and renders the final food adulterated, regardless of the defect level of the final food.



## US State Cannabis Regulation

PJRFSI Cannabis Safety Standard audit also includes the applicable US State regulations. Manufacturers are required to adhere to current regulations, and this will be included in audit checklist.



PJRFSI accepts no liability for any error or omission on any such information or opinion, including any information or opinion contained in this publication.





PJRF SI accepts no liability for any error or omission on any such information or opinion, including any information or opinion contained in this publication.