

REGULATION OF THE NATIONAL FOOD AGENCY
OF THE REPUBLIC OF INDONESIA
NUMBER 10 OF 2024
ON
MAXIMUM LEVELS OF CONTAMINANTS FOR FRESH FOOD IN DISTRIBUTION
BY THE BLESSINGS OF ALMIGHTY GOD
HEAD OF THE NATIONAL FOOD AGENCY
OF THE REPUBLIC OF INDONESIA,

- Considering : a. that to protect the public from the risks of the distributed fresh foods that do not meet the maximum levels of contaminant requirements, it is necessary to control food in distribution;
- b. that to control fresh food in distribution as referred to in point a, maximum levels of contaminant requirements are needed;
- c. that based on the considerations as referred to in in point a, and point b, it is necessary to issue a Regulation of the National Food Agency on Maximum Levels of Contaminants for Fresh Food in Distribution.
- Observing : 1 Law Number 18 of 2012 on Food (State Gazette of the Republic of Indonesia of 2012 Number 227, Supplement to the State Gazette of the Republic of Indonesia Number 5360) as amended several times, last by Law Number 6 of 2023 on Enactment of Government Regulation in Lieu of Law Number 2 of 2022 on Job Creation to Become Law (State Gazette of the Republic of Indonesia of 2023 Number 41, Supplement to the State Gazette of the Republic of Indonesia Number 6856);
2. Presidential Regulation Number 66 of 2021 on National Food Agency (State Gazette of the Republic of Indonesia of 2021 Number 162);
3. Regulation of the National Food Agency Number 2 of 2022 on Organization and Work Procedures of National Food Agency (State Bulletin of the Republic of Indonesia of 2022 Number 372) as amended by Regulation of the National Food Agency Number 7 of 2024 on Amendment to Regulation of the National Food Agency Number 2 of 2022 on Organization and Work Procedures of National Food Agency (State Bulletin of the Republic of Indonesia of 2024 Number 387);

4. Regulation of the National Food Agency Number 2 of 2024 on Control of Compliance with Food Safety, Quality, Nutrition, Labelling, and Advertising Requirements for Fresh Food (State Bulletin of the Republic of Indonesia of 2024 Number 287);

HAS DECIDED:

To issue : REGULATION OF THE NATIONAL FOOD AGENCY ON
MAXIMUM LEVELS OF CONTAMINANTS FOR FRESH FOOD
IN DISTRIBUTION.

CHAPTER I GENERAL PROVISIONS

Article 1

In this Agency Regulation:

1. Food means any substance originating from biological sources product of agriculture, plantation, forestry, fishery, livestock, waterworks and water sources, both processed and unprocessed, designated as food or beverage for human consumption, including food additives, food raw materials and other materials used in preparing, processing and/or producing food or beverage.
2. Fresh Food means unprocessed Food that may be directly consumed and/or become a raw material for Food processing.
3. Contaminant in Fresh Food, hereinafter referred to as Contaminant, means material that incidentally and/or undesirable in Food that comes from the environment or as a result of the process along Food processing, either biological contaminant, chemical contaminant, or other substances that can disrupt, harm, and endanger human health.
4. Heavy Metal Contaminants mean metallic and metalloid chemical elements with high atomic weight and density, that incidentally and/or undesirable in Food that comes from the environment or as a result of the process along food processing, that can disrupt, harm, and endanger human health.
5. Microbial Contaminants mean contaminants in Fresh Food from microbes that incidentally and/or undesirable in Food that comes from the environment or as a result of the process along Food processing, that can disrupt, harm, and endanger human health.
6. Mycotoxin Contaminants mean toxic secondary metabolites produced by certain molds that incidentally and/or undesirable in Food that comes from the environment or as a result of the process along Food processing, that can disrupt, harm, and endanger human health.
7. Maximum Level means the highest concentration of Heavy Metal Contaminants, Microbial Contaminants, and Mycotoxin Contaminants permitted in Fresh Food.
8. Any Person means any individual or corporation, either incorporated or otherwise.

9. Head of the National Food Agency, hereinafter referred to as the Head of Agency, means the head of a government agency who has the task of administering government duties in the Food sector.

CHAPTER II REQUIREMENTS

Article 2

- (1) Any Person distributing Fresh Foods within the territory of the Republic of Indonesia is obligated to meet the maximum levels of contaminant requirements.
- (2) The Fresh Foods as referred to in section (1) include:
 - a. unprocessed Fresh Food that may be directly consumed or not;
 - b. Food that has undergone minimal processing including washing, peeling, cooling, freezing, cutting, drying, salting, mixing, grinding, blanching, and/or coating; or
 - c. unprocessed Food and/or has undergone minimal processing with the addition of Food Additives.
- (3) The minimal processing as referred to in section (2) point b may include heating if necessary, for post-harvest handling

Article 3

The Contaminants as referred to in Article 2 section (1) include:

- a. Heavy Metal Contaminants;
- b. Microbial Contaminants;
- c. Mycotoxin Contaminants; and
- d. other Contaminants in accordance with scientific and technological developments.

Article 4

- (1) The Heavy Metal Contaminants as referred to in Article 3 point a, include:
 - a. arsenic (As);
 - b. cadmium (Cd); and
 - c. lead (Pb).
- (2) The arsenic Contaminant as referred to in section (1) point a is calculated as inorganic arsenic.
- (3) The Maximum Levels of Heavy Metal Contaminants for each Fresh Food groups as referred to in section (1) are listed in Annex I as an integral part of this Agency Regulation.

Article 5

- (1) The Microbial Contaminants as referred to in Article 3 point b, include:
 - a. *Salmonella*;
 - b. *Listeria monocytogenes*;
 - c. Shiga toxin-producing *Escherichia coli* (STEC); and
 - d. *Bacillus cereus*.

- (2) The Maximum Levels of Microbial Contaminants as referred to in section (1) for each Fresh Food groups are listed in Annex II as an integral part of this Agency Regulation.

Article 6

- (1) The Mycotoxin Contaminants as referred to in Article 3 point c, include:
 - a. aflatoxin B1;
 - b. total aflatoxins;
 - c. fumonisins; and
 - d. ochratoxin A (OTA).
- (2) The Maximum Levels of Mycotoxin Contaminants as referred to in section (1) for each Fresh Food groups are listed in Annex III as an integral part of this Agency Regulation.

CHAPTER III TESTING

Article 7

- (1) Compliance with the Maximum Levels of Contaminant requirements as referred to in Article 4, Article 5, and Article 6 is proven by quantitative laboratory testing results.
- (2) The laboratory testing as referred to in section (1) for arsenic contaminant as referred to in Article 4 section (2) is carried out through:
 - a. inorganic arsenic testing; and/or
 - b. total arsenic testing.
- (3) If the result of total arsenic testing as referred to in section (2) point b exceeds the maximum level as referred to in Article 4 section (3), an inorganic arsenic testing must be conducted.
- (4) The testing as referred to in section (1) is conducted in accredited laboratories in Indonesia using edible portions of Fresh Food.
- (5) In the event that there are no accredited laboratories available in Indonesia, the testing as referred to in section (4) can be done in Government-designated laboratories.
- (6) In the event of imported Fresh Food, in addition to the laboratories as referred to in section (4) and section (5), the testing can be done by:
 - a. accredited laboratories in the country of origin, or
 - b. laboratories that have mutual recognition agreements with Indonesian authorities or accredited laboratories, in accordance with the provisions of legislation.

CHAPTER IV CONTROL

Article 8

- (1) The Head of Agency, governors, and regents/mayors control the compliance with the Maximum Levels of

Contaminant requirements for Fresh Food in distribution.

- (2) The control as referred to in section (1) is carried out in accordance with the provisions of legislation.

CHAPTER V REVIEW

Article 9

- (1) The Head of Agency conducts reviews of the types and Maximum Levels of Contaminants for Fresh Food in distribution periodically.
- (2) The reviews as referred to in section (1) are risk-based.
- (3) In the event of changes on types and Maximum Levels of Contaminants for Fresh Food based on the results of the reviews as referred to in section (1), those changes are determined by a Decision of the Head of Agency.

CHAPTER VI ADMINISTRATIVE SANCTIONS

Article 10

Any Person who violates the provisions of this Agency Regulation is subject to administrative sanctions in accordance with the provisions of legislation.

CHAPTER VII TRANSITIONAL PROVISION

Article 11

Fresh Foods already distributed before this Agency Regulation comes into force are required to comply with the provisions of this Agency Regulation within 12 (twelve) months as of the date of the promulgation of this Agency Regulation.

CHAPTER VIII CLOSING PROVISION

Article 12

This Agency Regulation comes into force on the date of its promulgation.

In order that every person may know hereof, it is ordered to promulgate this Agency Regulation by its placement in the State Bulletin of the Republic of Indonesia.

Issued in Jakarta
on 22 August 2024

HEAD OF THE NATIONAL FOOD AGENCY
OF THE REPUBLIC OF INDONESIA,

signed

ARIEF PRASETYO ADI

Promulgated in Jakarta
on 26 August 2024

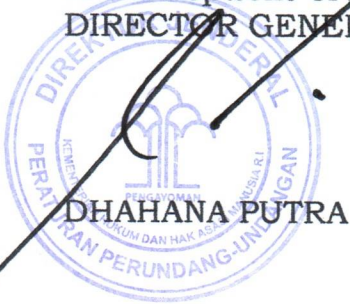
DIRECTOR GENERAL OF LEGISLATION AD INTERIM
OF THE MINISTRY OF LAW AND HUMAN RIGHTS
OF THE REPUBLIC INDONESIA

signed

ASEP N. MULYANA

STATE BULLETIN OF THE REPUBLIC OF INDONESIA OF 2024 NUMBER 501

Jakarta, 16 December 2024
Has been translated as an Official Translation
on behalf of the Minister of Law
of the Republic of Indonesia
DIRECTOR GENERAL OF LEGISLATION,



ANNEX I
REGULATION OF THE NATIONAL FOOD AGENCY
OF THE REPUBLIC OF INDONESIA
NUMBER 10 OF 2024
ON
MAXIMUM LEVELS OF CONTAMINANTS FOR
FRESH FOOD IN DISTRIBUTION

MAXIMUM LEVELS OF HEAVY METAL CONTAMINANTS FOR EACH FRESH FOOD GROUPS

| No | Fresh Food Group | Type of Food | Maximum Level for Contaminant (mg/kg) | | | Principle/Method of Analysis** |
|----|---|---|---------------------------------------|-----|-----|--|
| | | | As (inorganic) | Cd | Pb | |
| 1 | Cereals | Rice | 0,15 | 0,1 | 0,1 | Principle: Atomic Absorption Spectrophotometry (AAS) Inductively Coupled Plasma Mass Spectrometry (ICP-MS) |
| | | Other Cereals | TD* | 0,2 | 0,2 | |
| 2 | Tubers (fresh and dried) | Cassava, Sweet Potatoes, Taro, Sago, Other Tubers | TD* | 0,2 | 0,2 | |
| 3 | Nuts, Legumes, Seeds, and Oily Seeds/Fruits. (fresh and dried) | Nuts (cashews, brazil nuts, chestnuts, almonds, kenari, walnuts, macadamias, pistachios, hazelnuts, pecans) | TD* | 0,2 | 0,2 | Method of Analysis: As: AOAC 986.15 Cd: AOAC 999.11 Pb: AOAC 972.25 |
| | | Legumes (peanuts, mung beans, soy beans, red beans, bambara nuts, cowpeas, other legumes) | TD* | 0,2 | 0,2 | |

| | | | | | | |
|---|------------------------------------|--|-----|-----|-----|--|
| | | Seeds (chia seeds, pumpkin seeds, other seeds) | TD* | 0,2 | 0,2 | |
| | | Oily Seeds/Fruits (coconut, sesame, other oily seeds/fruits) | TD* | 0,2 | 0,2 | |
| 4 | Vegetables (fresh and dried) | Vegetables including mushrooms (brassicas, bulbs, fruiting vegetables, leafy vegetables, root and tuber vegetables, stalk and steam vegetables, flower vegetables, other vegetables) | TD* | 0,2 | 0,2 | |
| 5 | Fruits (fresh and dried) | Fruits (inedible peels, edible peels, berries and other small fruits, citrus, pome, stone fruits) | TD* | 0,1 | 0,1 | |
| 6 | Herbs and Spices (fresh and dried) | Herbs | TD* | 1 | 1,5 | |
| | | Spices (fruits, flowers, steams, barks, rhizomes, and seeds) | TD* | 1 | 1,5 | |
| 7 | Refreshers and Sweeteners | Refreshers (coffee beans, cocoa beans) | TD* | 0,5 | 0,5 | |

Notes:

*) TD : *Tidak ditetapkan* (Not specified)

**) : May use other validified methods

HEAD OF THE NATIONAL FOOD AGENCY
OF THE REPUBLIC OF INDONESIA,

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ARIEF PRASETYO ADI

ANNEX II
REGULATION OF THE NATIONAL FOOD AGENCY
OF THE REPUBLIC OF INDONESIA
NUMBER 10 OF 2024
ON
MAXIMUM LEVELS OF CONTAMINANTS FOR
FRESH FOOD IN DISTRIBUTION

MAXIMUM LEVELS OF MICROBIAL CONTAMINANTS FOR EACH FRESH FOOD GROUPS

| No | Fresh Food Groups | Type of Food | Parameter | n ⁽¹⁾ | c ⁽²⁾ | m ⁽³⁾ | M ⁽⁴⁾ | Method of Analysis ⁽⁵⁾ |
|----|-------------------|---|-------------------------|------------------|------------------|-----------------------|------------------|-----------------------------------|
| 1 | Fruits | Dried Fruits (dates, raisins, apricots, figs, other dried fruits) | <i>Salmonella</i> | 5 | 0 | Negative/25g | N/A | ISO 6579-1 |
| | | Fresh-cut Fruits | <i>Salmonella</i> | 5 | 0 | Negative/25g | N/A | ISO 6579-1 |
| | | | <i>L. monocytogenes</i> | 5 | 0 | 10 ² CFU/g | N/A | ISO 11290-2 |
| | | Fresh Fruit Juices | STEC ⁽⁶⁾ | 5 | 0 | Negative/25g | N/A | ISO/TS 13136 |
| | | | <i>Salmonella</i> | 5 | 0 | Negative/25g | N/A | ISO 6579-1 |
| | | Frozen Fruits | <i>Salmonella</i> | 5 | 0 | Negative/25g | N/A | ISO 6579 |
| | | | <i>L. monocytogenes</i> | 5 | 0 | 10 ² CFU/g | N/A | ISO 11290-2 |
| | | | | | | | | |
| 2 | Vegetables | Frozen Vegetables Ready-to-eat | <i>Salmonella</i> | 5 | 0 | Negative/25g | N/A | ISO 6579 |
| | | | <i>L. monocytogenes</i> | 5 | 0 | 10 ² CFU/g | N/A | ISO 11290-2 |
| | | fresh vegetables | <i>Salmonella</i> | 5 | 0 | Negative/25g | N/A | ISO 6579 |
| | | | <i>L. monocytogenes</i> | 5 | 0 | 10 ² CFU/g | N/A | ISO 11290-2 |
| | | | | | | | | |

| | | | | | | | | |
|---|---|---|------------------------|---|---|-----------------------|-----------------------|--------------|
| | | Ready-to-eat (lettuces, tomatoes, cucumbers, other fresh vegetables ready-to-eat) | STEC ⁽⁶⁾ | 5 | 0 | Negative/25g | N/A | ISO/TS 13136 |
| 3 | Herbs and Spices | Herbs and Other Spices (Dried) | <i>Salmonella</i> | 5 | 0 | Negative/25g | N/A | ISO 6579 |
| | | | <i>Bacillus cereus</i> | 5 | 2 | 10 ² CFU/g | 10 ⁴ CFU/g | ISO 7932 |
| 4 | Nuts, Legumes, Seeds, and Oily Seeds/Fruits | Oily Seeds/Fruits (Sesame) | <i>Salmonella</i> | 5 | 0 | Negative/25g | N/A | ISO 6579 |
| 5 | Refreshers and sweeteners | Coconut water (only for packaged coconut water without pasteurization process) | <i>Salmonella</i> | 5 | 0 | Negative/25g | N/A | ISO 6579-1 |

Notes:

- (1) **n** : Number of samples;
(2) **c** : Number of acceptable samples with counts between m and M;
(3) **m** : Maximum microbial count for product acceptability;
(4) **M** : Microbial count limit for product rejection;
(5) May use other validated methods;
(6) STEC : Shiga toxin-producing *Escherichia coli*.

N/A : Not Applicable

HEAD OF THE NATIONAL FOOD AGENCY
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ARIEF PRASETYO ADI

ANNEX III
REGULATION OF THE NATIONAL FOOD AGENCY
OF THE REPUBLIC OF INDONESIA
NUMBER 10 OF 2024
ON
MAXIMUM LEVELS OF CONTAMINANTS FOR
FRESH FOOD IN DISTRIBUTION

MAXIMUM LEVELS OF MYCOTOXIN CONTAMINANTS FOR EACH FRESH FOOD GROUPS

| No | Fresh Food Groups | Type of Food | Maximum Level for Contaminant (µg/kg) | | | | Method of Analysis** |
|----|---|--|---------------------------------------|-----------------|--------------|-----------|-----------------------------|
| | | | Aflatoxin B1 | Aflatoxin Total | Ochratoxin A | Fumonisin | |
| 1 | Cereals | Unpolished rice | 10 | 15 | 5 | TD* | Principle of HPLC ISO 16050 |
| | | Polished rice | 5 | 10 | 5 | TD* | |
| | | Corn | 10 | 15 | 5 | 4000 | |
| | | Other Cereals | 10 | 15 | 5 | TD* | |
| 2 | Nuts, Legumes, Seeds, and Oily Seeds/Fruits | Nuts (almonds, pistachios, brazil nuts, hazelnuts, other nuts) | 10 | 15 | 5 | TD* | |
| | | Legumes (peanuts) | 10 | 15 | TD* | TD* | |
| 3 | Herbs and Spices | Dried Herbs and Spices (chili, nutmeg, other dried herbs and spices) | 15 | 20 | 20 | TD* | |
| 4 | Fruits | Dried Fruits (dates, figs, raisins, other dried fruits) | 5 | 10 | 5 | TD* | |
| 5 | Refreshers and Sweeteners | Coffee Beans, Cocoa Beans | 10 | 15 | TD* | TD* | |

Notes:

*) TD : *Tidak ditetapkan* (Not specified)

**) : May use other validified methods

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