

1 Scope

This Standard covers the maximum residue limits (MRL) of pesticides established for commercial varieties of lettuce from *Lactuca sativa* L. of the Asteraceae family intended for human consumption.

2 Normative References

The following documents are referred to in the text in such a way that some or all their contents constitute the requirements of this document. The latest edition of the referenced documents (including any amendments) applies.

Bureau of Agriculture and Fisheries Standards (BAFS)-Department of Agriculture (DA). (2023). Performance criteria for methods of analysis for the determination of pesticide residues in food and feed — Guidelines (PNS/BAFS 367:2023).
<https://bafs.da.gov.ph/index.php/approved-philippine-national-standards/>

Codex Alimentarius Commission (CAC). (1999). Recommended methods of sampling for the determination of pesticide residues for compliance with MRLs (CAC GL 33-1999). https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B33-1999%252FCXG_033e.pdf

CAC. (2010a). Guidelines on good laboratory practice in pesticide residue analysis (CAC/GL 40-1993, Amd. 2010). https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B40-1993%252Fcxg_040e.pdf

CAC. (2010b). Portion of commodities to which maximum residue limits apply and which is analyzed (CAC GL 41-1993, Amd. 2010). https://www.fao.org/fao-who-codexalimentarius/sh-proxy/de/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B41-1993%252FCXG_041e.pdf

CAC. (2017). Guidelines on performance criteria for methods of analysis for the determination of pesticide residues in food and feed (CAC/GL 90-2017). https://www.fao.org/fao-who-codexalimentarius/sh-proxy/jp/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B90-2017%252FCXG_090e.pdf

- CAC. (2023). Principles and guidance on the selection of representative commodities for the extrapolation of maximum residue limits for pesticides to commodity groups (CXG 84-2012 Amd. 2023).
http://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B84-2012%252FCXG_084e.pdf
- International Atomic Energy Agency (IAEA). (2022). Food contaminant and residue information system—Databases for pesticide residue methods.
<https://nucleus.iaea.org/sites/fcris/Pages/Pesticide-Residue-Methods.aspx>
- United States Food and Drug Administration (FDA). (1999). Pesticide Analytical Manual (PAM) Volume I (3rd ed.).
<https://www.fda.gov/food/laboratory-methods-food/pesticide-analytical-manual-volume-i-pam-3rd-edition>
- FDA. (2002.) PAM Volume II. <https://www.fda.gov/food/laboratory-methods-food/pesticide-analytical-manual-volume-ii>

3 Terms and Definitions

For the purpose of this Standard, the following definitions shall apply:

3.1

active ingredient

part of the product that provides the pesticidal action (Food and Agriculture Organization of the United Nations [FAO] & World Health Organization [WHO], 2014)

3.2

Maximum Residue Limit (MRL)

maximum concentration of a pesticide residue (expressed as mg/kg) to be legally permitted in or on food commodities and animal feeds (CAC, 2026)

3.3

pesticide

any substance or product, or mixture thereof, including active ingredients, adjuvants and pesticide formulations, intended to control, prevent, destroy, repel or mitigate directly or indirectly, any pest. The term shall be understood to include insecticide, fungicide, bactericide, nematocide, herbicide, molluscicide, avicide, rodenticide, plant regulator, defoliant, desiccant, and the like (DA-Fertilizer and Pesticide Authority [FPA], 2020)

*Working draft as of April 24, 2026***3.4****pesticide residue**

any specified substance in food, agricultural commodities, or animal feed resulting from the use of a pesticide. The term includes any derivatives of a pesticide, such as conversion products, metabolites, reaction products, and impurities considered to be of toxicological significance (CAC, 2026)

4 Minimum Requirements

The MRL of pesticides in lettuce are shown in Table 1.

Table 1. MRL of pesticide per active ingredient in lettuce

Active Ingredient	MRL (mg/kg)
abamectin	0.15 ^{a1}
acibenzolar-S-methyl	0.40 ^{a2}
afidopyropen	2.00 ^{a5}
ametoctradin	50.00 ^{a4}
azoxystrobin	3.00 ^{a1}
benalaxyl	1.00 ^{a1}
boscalid	40.00 ^{a4}
carbendazim	5.00 ^{a1}
chlorantraniliprole	20.00 ^{a4}
clothianidin	2.00 ^{a4}
cyantraniliprole	20.00 ^{a4}
cyazofamid	10.00 ^{a4}
cyclaniliprole	7.00 ^{a5}
cycloxydim	1.50 ^{a1}
cypermethrin (<i>alpha-cypermethrin, zeta-cypermethrin</i>)	0.70 ^{a4}
cyprodinil	50.00 ^{a4}
cyromazine	4.00 ^{a1}
deltamethrin	2.00 ^{a4}
dichlobenil	0.30 ^{a4}
difenoconazole	2.00 ^{a1}
dimethomorph	10.00 ^{a1}
dinotefuran	6.00 ^{a4}
dithiocarbamates	10.00 ^{a3}
emamectin benzoate	1.00 ^{a1}
fenamidone	20.00 ^{a1}
fenhexamid	30.00 ^{a1}

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Active Ingredient	MRL (mg/kg)
fenpyrazamine	1.50 ^{a1}
flonicamid	8.00 ^{a2}
fluazaindolizine	0.04 ^{a4}
fluazifop-p-butyl	0.01 ^{a2}
flubendiamide	7.00 ^{a2}
fludioxonil	40.00 ^{a2}
fluensulfone	1.00 ^{a4}
fluopicolide	30.00 ^{a4}
fluopyram	15.00 ^{a1}
flupyradifurone	4.00 ^{a1}
flutriafol	1.50 ^{a1}
fluxapyroxad	4.00 ^{a1}
folpet	50.00 ^{a1}
fosetyl-Al	200.00 ^{a1}
glufosinate ammonium	0.40 ^{a1}
imidacloprid	2.00 ^{a1}
indoxacarb	7.00 ^{a1}
isofetamid	7.00 ^{a2}
mandipropamid	25.00 ^{a4}
mefentrifluconazole	5.00 ^{a1}
metaflumizone	7.00 ^{a1}
metalaxyl	1.50 ^{a2}
methiocarb	0.05 ^{a1}
methomyl	0.20 ^{a1}
methoxyfenozide	30.00 ^{a2}
myclobutanil	0.05 ^{a4}
oxathiapiprolin	5.00 ^{a2}
pendimethalin	4.00 ^{a2}
penthiopyrad	30.00 ^{a4}
permethrin	2.00 ^{a1}
piperonyl butoxide	50.00 ^{a2}
pirimicarb	5.00 ^{a1}
propamocarb	100.00 ^{a1}
pyraclostrobin	40.00 ^{a1}
pyrimethanil	3.00 ^{a1}
quinoxifen	20.00 ^{a1}
spinetoram	10.00 ^{a1}
spinosad	10.00 ^{a4}
spiromesifen	15.00 ^{a4}

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Active Ingredient	MRL (mg/kg)
spirotetramat	7.00 ^{a4}
sulfoxaflor	6.00 ^{a4}
tebuconazole	5.00 ^{a1}
tebufenozide	10.00 ^{a4}
thiamethoxam	3.00 ^{a4}
tolclofos-methyl	0.70 ^{a5}
trifloxystrobin	15.00 ^{a1}
NOTE Dithiocarbamates is expressed as carbon disulfide (CS ₂) (sum of maneb, mancozeb, metiram, propineb, thiram, and ziram).	
^{a1} Codex Alimentarius Commission (CAC). (2026a). Codex pesticides residues in the food online database for lettuce, head (VL 0482). https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/commodities-detail/en/?c_id=306	
^{a2} Codex Alimentarius Commission (CAC). (2026b). Codex pesticides residues in the food online database for lettuce, leaf (VL 0483). https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/commodities-detail/en/?c_id=307	
^{a3} Codex Alimentarius Commission (CAC). (2026c). Codex pesticides residues in the food online database for cos lettuce (VL 0510). https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/commodities-detail/en/?c_id=312	
^{a4} Codex Alimentarius Commission (CAC). (2026d). Codex pesticides residues in the food online database for leafy vegetables (VL 0053). https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/commodities-detail/en/?c_id=313	
^{a5} Codex Alimentarius Commission (CAC). (2026d). Codex pesticides residues in the food online database for leafy greens (subgroup) (VL 2050). https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/commodities-detail/en/?c_id=1881	

5 Methods of Analysis and Sampling

Analytical and sampling methods to be used for ascertaining conformance to the established limits should be in accordance with relevant guidelines of CAC, national competent authority, and/or international organizations, which include but are not limited to the following:

- a) BAFS-DA. (2023). Performance criteria for methods of analysis for the determination of pesticide residues in food and feed — Guidelines (PNS/BAFS 367:2023).
- b) CAC. (1999). Recommended methods of sampling for the determination of pesticide residues for compliance with MRLs (CAC/GL 33-1999).
- c) CAC. (2010). Guidelines on good laboratory practice in pesticide residue analysis (CAC/GL 40-1993, Amd. 2010).
- d) CAC. (2010). Portion of commodities to which maximum residue limits apply and which is analyzed (CAC/GL 41-1993, Amd. 2010).
- e) CAC. (2017). Guidelines on performance criteria for methods of analysis for the determination of pesticide residues in food and feed (CAC/GL 90-2017).
- f) CAC. (2023). Principles and guidance on the selection of representative commodities for the extrapolation of maximum residue limits for pesticides to commodity groups (CXG 84-2012, Amd. 2023).
- g) International Atomic Energy Agency (IAEA). (2022). Food contaminant and residue information system—Databases for pesticide residue methods.
- h) United States FDA. (1999). Pesticide Analytical Manual (PAM) Volume I (3rd ed.).
- i) FDA. (2002). PAM Volume II.

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- Codex Alimentarius Commission (CAC). (1999). Recommended methods of sampling for the determination of pesticide residues for compliance with MRLs (CAC/GL 33-1999). https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B33-1999%252FCXG_033e.pdf
- Codex Alimentarius Commission (CAC). (2010a). Guidelines on good laboratory practice in pesticide residue analysis (CAC/GL 40-1993, Amd. 2010). https://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B40-1993%252FCXG_040e.pdf
- Codex Alimentarius Commission (CAC). (2010b). Portion of commodities to which maximum residue limits apply and which is analyzed (CAC/GL 41-1993 Amd. 2010). https://www.fao.org/fao-who-codexalimentarius/sh-proxy/de/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B41-1993%252FCXG_041e.pdf
- Codex Alimentarius Commission (CAC). (2017). Guidelines on performance criteria for methods of analysis for the determination of pesticide residues in food and feed (CAC/GL 90-2017). https://www.fao.org/fao-who-codexalimentarius/sh-proxy/jp/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B90-2017%252FCXG_090e.pdf
- Codex Alimentarius Commission (CAC). (2023). Principles and guidance on the selection of representative commodities for the extrapolation of maximum residue limits for pesticides to commodity groups (CXG 84-2012, Amd. 2023). http://www.fao.org/fao-who-codexalimentarius/sh-proxy/en/?lnk=1&url=https%253A%252F%252Fworkspace.fao.org%252Fsites%252Fcodex%252FStandards%252FCXG%2B84-2012%252FCXG_084e.pdf
- Codex Alimentarius Commission (CAC). (2026a). Codex pesticides residues for lettuce, head (VL 0482). https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/commodities-detail/en/?c_id=306
- Codex Alimentarius Commission (CAC). (2025b). Codex pesticides residues for lettuce, leaf (VL 0483). https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/commodities-detail/en/?c_id=307

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- Codex Alimentarius Commission (CAC). (2025d). Codex pesticides residues for leafy vegetables (group) (VL 0053). https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/commodities-detail/en/?c_id=313
- Codex Alimentarius Commission (CAC). (2025e). Codex pesticides residues in food online database for leafy greens (subgroup) (VL 2050). https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/commodities-detail/en/?c_id=1881
- Codex Alimentarius Commission (CAC). (2026). Glossary of terms. <https://www.fao.org/fao-who-codexalimentarius/codex-texts/dbs/pestres/glossary/en/#:~:text=%22Pesticide%20residue%22%20means%20any%20specified,to%20be%20of%20toxicological%20significance>
- Fertilizer and Pesticide Authority (FPA)-Department of Agriculture (DA). (2020). Pesticide regulatory policies and implementing guidelines (3rd ed.). https://fpa.da.gov.ph/fpa-green-book/#flipbook-df_5043/1/
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