



Republic of the Philippines Department of Health Food and Drug Administration



- Methods and cited specifications in FDA Circular 2013-010 were taken from internationally recognized references such as:
 - FDA Bacteriological Analytical Manual published by AOAC
 - Compendium of Analytical Methods of the Canadian Health Protection Branch
 - Compendium of Methods for the Microbiological Examination of Foods compiled by the American Public Health Association (APHA)

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- Specifications and Standards for Foods, Food Additives, etc. Japan External Trade Organization
- Microorganisms in Foods by the International Commission on Microbiological Specifications for Foods (ICMSF)
- Codex Alimentarius Commision Guidelines
- International Standards Organization (ISO) Microbiological Methods
- Australia New Zealand Food Authority (ANZFA)

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- For Drug and Pharmaceutical Products, methods and reference criteria are referred from the United States Pharmacopeia.
- Certain specific drug products are tested according to specified parameters stated in the monograph.
- Products without official monographs will fall under the following categories:

 Non-sterile Products
 Dietary Supplements

Parameters	Non-sterile Products	
Total Aerobic Microbial Count (TAMC)	250 cfu/g	
Total Yeast and Molds Count (TYMC)	50 cfu/g	Table 1. Microbiological limit for Non-sterile Produ
Bile-tolerant Gram- Negative bacteria	Negative	for Non-Stellie Front
Escherichia coli	Negative	
Salmonella	Negative	
Pseudomonas aeruginosa	Negative	
Staphylococcus aureus	Negative	
Clostridia	Negative	
Candida albicans	Negative	

Material	Recommended Microbial Limit Requirements (cfu/g or mL)	
	Total Aerobic Microbial Count NMT 10	
	Total Combined Yeast & Mold Count NMT 101	
	88e-tolerant Gram-negative Bacteria NMT 10	
ried or Powdered Botanicals		
ned or Powdered Botanicas	Absence of Solmonella spp. & E. coli in 10 g	
Table 2. Recommended Microbial Limi	its for Botanical Ingredients and Products (Continued)	
Toble El necommended microsian Can	Recommended Microbial Limit Requirements	
Material	(cfu/g or mL)	
	Total Aerobic Microbial Count NMT 101	
	Total Combined Yeast & Mold Count NMT 101	
nudered Botanical Extracts	Absence of Salmonella spp. & E. coli in 10 g	
MONTE STATE OF THE	Total Aerobic Microbial Count NMT 101	
inclures	Total Combined Yeast & Mold Count NMT 101	
16.10167	Total Aerobic Microbial Count NMT 101	
idextracts	Total Combined Yeast & Mold Count NMT 101	
BESURGE.	Total Aerobic Microbial Count NMT 10/	
usions/Decoctions	Total Combined Yeast & Mold Count NMT 10	
277.00	Total Aerobic Microbial Count NMT 101	
	Total Combined Yeast & Mold Count NMT 101	
unitional Supplements with Botanicals	Absence of Spinonella spp & E, coli in 10 g	
actions 2000	Total Aerobic Microbial Count NMT 101	
	Total Combined Yeast & Mold Count NMT 10	
clanicals to be treated with boiling water before use	Absence of E col/ in 10 g	
Table 1 Recommended Microbial Limi	ts for Dietary Supplement Ingredients and Products	
Material	Recommended Microbial Limit Requirements (cfu/q or mL)	
THE RESERVE OF THE PATHWAY AND PARTY.	Total Aerobic Microbial Count NMT 101	
	Total Combined Yeast & Mold Count NMT 101	
her raw materials and dietary supplement ingredients	Absence of f. coli in 10 q	
ner raw materials and deciary supplement ingressions.	Total Aerobic Microbial Count NMT 101	
intional supplements with synthetic or highly refined ingredi-	Total Combined Yeast & Mold Count NMT 107	
	Absence of E. coli in 10 g	



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- Herbal products are evaluated based on the specifications stipulated in the following:
 - Administrative Order No. 184 s.2004:
 Guidelines on the Registration of Traditionally-Used Herbal Products*
 - Administrative Order No. 172 s.2004:
 Guidelines on the Registration of Herbal Products*
 - * Both A.O shows identical microbiological specifications for raw materia and finished product.

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Microbial limits
 Test to detect and quantify the following microbial contaminants shall be conducted: aerobic bacteria, Sacchromycetes and Hypomycetes

3.9.1 For untreated plant material harvested under acceptable hygienic conditions intended for further processing:

Openiums Limits

Organisms	Unit	Limits
Escherichia coli	cfu/ q	Negative
Moulds propagules	cfu/ g	Maximum 10 ⁵
Staphylococcus	cfu/ g	Negative

Plant materials that will undergo pre-treatment (e.g. with boiling water as used for herbal teas and infusions) or if the material is to be used for topical dosage form:
 Organisms
 Unit Limits

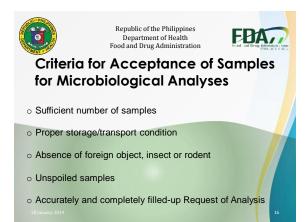
Organisms	Unit	Litting
Aerobic bacteria	cfu/ g	Maximum 10'
Yeasts and moulds	cfu/ g	Maximum 10 ⁴
Escherichia coli	cfu/ g	Negative
Salmonellae	· cfu/ g	Negative
Staphylococcus	cfu/ g	Negative
Other Enterobacteria	cfu/ g	Maximum 10 ⁴

3.9.3 Plant materials to be used in drugs for internal use:

Organisms	Unit	Limits
Aerobic bacteria	cfu/ g	Maximum 10 ⁵
Yeasts and moulds	cfu/ q	Maximum 10 ³
Escherichia coli	cfu/ g	Negative
Salmonellae	cfu/ q	Negative
Staphylococcus	cfu/ q	Negative
Other Enterobacteria	cfu/ g	Maximum 10 ³

Table 3. Microbial limits for raw materials according to AO No. 184 s 2004.

oisture Content -not mo	re than 10%		
H licrobial Limits			
.3.1 For Solid Products	Unit	Limits	1
Organisms		Maximum 10 ⁴	1
Aerobic bacteria	cfu/ g	Maximum 10 ³	1
reasts and moulds Escherichia coli	cfu/ g	Negative	1
Salmonellae	cfu/ g	Negative	1
	cfu/ q	Negative	1
Staphylococcus Other Enterobacteria	cfu/ g	Maximum 10 ²	1
4.3.2 For Liquid Products	Unit	Limits	7
Organisms		Maximum 10 ²	-
Aerobic bacteria	cfu/ g	Maximum 10 ²	-
Yeasts and moulds	cfu/ g	Negative	-
Escherichia coli	cfu/ g	Negative	٦.
Salmonellae	cfu/ g	Negative	-
Staphylococcus		Maximum 10 ²	-
Other Enterobacteria	cfu/ g	maximum 10	









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