1 2		[Date stamp here]
3	ADMINI	STRATIVE ORDER
4	No	
5		
6	SUBJE	ECT: Standard for Vinegar and Code of Practice for its Manufacture
7		Repealing Administrative Order No. 134 s. 1970 "Regulation
8		Prescribing the Standards of Identity and Quality of Vinegar (B-4.9
9		Condiments, Sauces, Seasoning)"
10		
10	I.	RATIONALE
12		The Food and Drug Administration (FDA) is mandated to ensure the safety, efficacy
13		or quality of health products through policy formulation and monitoring pursuant
13 14		to Article II, Section 15 of the 1987 Philippine Constitution, Republic Act (RA) No.
15		9711 and RA 10611 and their Implementing Rules and Regulations wherein the
16		State shall protect and promote the right to health of the people and instill health
17		consciousness among them.
18		consciousness among them.
19		Section 9.a. of Article IV of the Implementing Rules and Regulations of RA 10611
20		indicates that "Standards shall be established on the basis of science, risk analysis,
21		scientific advice from expert body/bodies, standards of other countries, existing
22		Philippine National Standards (PNS) and the standards of the Codex Alimentarius
23		Commission (Codex) where these exist and are applicable"
24		Commission (Codex) where these exist and are appreadie
25		The Administrative Order No. 134 s. 1970 was promulgated in 1970 to provide the
26		standard of identity and quality of vinegar. From traditional vinegar production,
27		new technologies to accelerate the processing time and new variants from other raw
28		materials have been developed. Hence, with these new innovations, there is a need
29		to revisit the standard and code of practice of vinegar to provide an updated
30		guidance on the identity of the product and its processing procedures.
31		
32		This Order is hereby promulgated to prescribe the updated standard and code of
33		practice for vinegar.
34		
35	II.	OBJECTIVE
36		
37		This Order aims to provide guidelines for food business operators (FBOs) on the
38		manufacture of vinegar.
39		
40		Specifically, this Order aims to:
41		
42		A. Provide updated standards on the identity and quality of vinegar; and
43		B. Provide guidelines on the code of practice for processing and handling
43 44		vinegar.
44		vinicgai.

III. SCOPE OF APPLICATION

This Order shall cover FBOs engaged in the manufacture, trade, repacking, and distribution of vinegar in the Philippine market.

IV. DEFINITION OF TERMS

For the purpose of this issuance, the following terms shall be defined as follows:

- A. Accelerated Fermentation refers to the fermentation process hastened through the use of specialized equipment, such as an acetator.
- B. Acetous Fermentation refers to the natural transformation of sugars or processed starches into ethanol using yeast (*Saccharomyces cerevisiae*) and subsequently converted into acetic acid through acetic acid bacteria (*Acetobacter aceti*).
- C. **Distilled Vinegar** refers to the liquid produced by acetous fermentation of dilute distilled alcohol or by the distillation of the vinegar.
 - D. **Fermentation** refers to the chemical process of converting starch or sugars into alcohol or acid.
 - E. **Ingredient** refers to any substance including food additives, used as a component in the manufacture or preparation of a food and present in the final product in its original or modified form.
 - F. **Labelling** refers to any written, printed or graphic matter (1) upon any article or any of its container or wrappers or (2) accompanying the packaged food.
- G. Mother Vinegar refers to the gooey film that appears on the surface of the alcohol product as it is covered to vinegar. It is a natural carbohydrate called cellulose. This film holds the highest concentration of acetobacters. It is skimmed off the top and added to subsequent batches of alcohol to speed the formation of vinegar. Acetozym nutrients are the manmade mother of vinegar in a powdered form.
- H. Natural Vinegar refers to the vinegar produced by acetous fermentation with
 or without alcoholic fermentation of exclusively the following raw materials:
 coconut sap, nipa, kaong or buri palm; cane sugar (including unrefined crystal
 sugar and refinery syrups); molasses; honey; cereal grains; malt, fruit or
 vegetable extracts, cider, wine, alcoholic liquors of agricultural origin, and other
 sugar- or starch-containing materials.

1		I. Vinegar refers to the liquid produced by alcoholic and/or acetous fermentations
2		of one or more of the following: malt, spirit, wine, cider, alcoholic liquors, fruits
3		(e.g., mango, coconut, pineapple), grain, vegetables, honey, glucose, sugar
4		(including unrefined crystal sugar and refinery sugar), or molasses.
5		(including unclined crystal sugar and refinery sugar), or molasses.
6	V.	GENERAL GUIDELINES
7	••	GENERAL GUIDELINES
8		A. The products covered shall comply with the standards of identity and code of
8 9		practice indicated in the Order and shall be encoded in the application for FDA
9 10		Certificate of Product Registration as part of the documentary requirements.
		Certificate of Froduct Registration as part of the documentary requirements.
11		D. The nucleusts account shall be necessary and handled in accountenes with the
12		B. The products covered shall be prepared and handled in accordance with the
13		appropriate sections of the FDA AO No. 153 s. 2004 – Revised Guidelines on
14		Current Good Manufacturing Practice in the Manufacturing, Packing,
15		Repacking or Holding Food and/or the General Principles of Food Hygiene
16		(CXC 1-1969 Rev. 2020), and their future amendments.
17		
18		C. It shall be labeled in accordance with AO No. 2014-0030 or the "Revised Rules
19		and Regulations Governing the Labeling of Prepackaged Food Products Further
20		Amending Certain Provisions of AO No. 88-B s. 1984" and its future
21		amendments.
22		
23		D. The FBOs exporting their vinegar products shall comply with Administrative
24		Order 2014-0029 "Rules and Regulations on the Licensing of Food
25		Establishment and Registration of Processed Food and Other Food Products,
26		and For Other Purposes," as well as the rules and regulations of the importing
27		country.
28		
29	VI.	SPECIFIC GUIDELINES
30		
31		A. Ingredients
32		
33		1. Basic Ingredients
34		
35		The following raw materials may be used for vinegar production:
36		a. Sap of coconut, nipa, kaong, and buri palm;
37		b. Agricultural products containing starch and/or sugars including but
38		not limited to: fruits, sugar cane, berries, cereal grains, malted
39		barley, whey, and honey;
40		c. Fruit wine, cider;
41		d. Alcohol of agricultural origin; and
42		e. Yeast;
43		
44		2. Optional Ingredients
45		
46		Applicable food additives may be used in accordance with the prescribed
47		limit of use as indicated in the Bureau Circular No. 2006-016 entitled

1 2 3		-	Additives", Codex Stan 192- itives" and their latest amendr	
4	B.	Hygiene		
5				
6			with the appropriate sections of	
7		s. 2004 "Guidelines,	Current Good Manufacturi	ng Practices in the
8			Repacking or Holding For	
9		Alimentarius General Prin	ciples of Food Hygiene (CAC	-RCP 1 – 1969, Rev. 4-
10		2022), and their future am	endments.	
11 12		It shall not contain vineg matters and sediment.	ar eels or substantial quantit	ies of other suspended
13				
14	C.	Production and Process Co	ontrol	
15				
16	1.			
17		-	is collected in an appropriate a	
18 19			sap or extract is placed in eart nation.	nen, glass jars, or other
20			extract is fermented with	veast (Saccharomyces
21		-	mother vinegar until the re	
22		(w/w) is attain	-	
23				
24	2.	From Alcoholic Product or	Wine	
25		a. Acetobacter ad	ceti is added to the alcoholic	product (e.g., wine) to
26			tic fermentation.	
27		b. It is left to ferm	nent until the required 4% w/w	acetic acid is achieved.
28				
29	3.	Accelerated Fermentation		
30		1	and unpasteurized mother vi	inegar are added to the
31		acetator.		
32			dded and air pressure of the ac	etator is adjusted as the
33 34		feed increases.	tal acidity increases after	the initial stage of
35			alcoholic liquor is added until	U
36			the drum is $\frac{3}{4}$ full.	
37			s met, harvest of the product r	nay commence.
38				2
39	D.	Quality Factor		
40	Table 1. Total Acidity, calculated as % Acetic Acid			
		Vinegar	% Acidity as Acetic Acid	Method of Analysis
		1. Vinegar from	4% w/w, minimum	AOAC 930.35
		Alcoholic Product	· · · · ·	
		TT 7' 1		

Wine,

produced through

or

and

Accelerated Fermentation			
2.	Natural Vinegar (e.g., Nipa Sap	3% w/w, minimum	
	Vinegar, etc.)		

Table 2. Contaminants

Contaminant	Limits	Method of Analysis		
1. Lead	2.0 mg/kg, maximum	AOAC 972.23 or other validated/verified method		
2. Arsenic	1.0 mg/kg, maximum	AOAC 952.13 or other validated/verified method		

Method of sampling shall be in accordance with the FAO/WHO Codex Alimentarius Sampling Plans for Prepackaged Foods (CAC/RM 42-1969), Codex Alimentarius Volume 13, 1994 (Annex E), and its series of subsequent amendments.

E. Packaging

1.	Vinegar shall be packed in appropriate food-grade primary packaging materials
	that will maintain its integrity during storage and transport.

- 2. Packaging options for the product may include but are not limited to the following:
 - a.glass bottles; b.polyethylene terephthalate (PET) bottles;
 - c.high density polyethylene (HDPE) bottles; and
 - d.PET/ polyethylene (PE) stand-up pouches
 - 3. All packaging materials/containers except glass bottles and caps/closures must be certified as food grade and have been tested for overall migration or product-package compatibility test.
 - 4. The product shall occupy not less than 90% volume by volume (v/v) of the capacity of the container.
- F. Product Naming
 - 1. Vinegar shall be named in accordance with its identity.
- a. Vinegar produced from only one raw material shall be named as
 "X Vinegar" or "Sukang X", where "X" is the name of the substrates of origin used. "X" shall appear in letters of the same

1 2 3 4 5 6 7 8 9 10 11 12 13	 type size, style, and color as in the word "VINEGAR" or "SUKANG" (e.g., Cane Vinegar, Sukang Iloko, Sukang Tuba). b. The name "DISTILLED VINEGAR" shall be printed in letters of the same type size, style, and color. c. Where an ingredient has been added in accordance with Section VI.A, which imparts to the vinegar the distinctive flavor of the ingredient(s), the name of the product shall be accompanied by an appropriate descriptive term. E.g., Coconut Vinegar, Pineapple Vinegar, Mango Vinegar. d. The term "SUKANG PAOMBONG" and "SUKANG SASA" shall be used exclusively for vinegar produced from nipa sap in which no cloudifiers have been added.
14	2. The name of the product shall prominently appear on the principal display panel
15	of the label.
16	3. Products that do not conform with the prescribed standards in this Order shall
17	not be allowed to use "Vinegar" as the product name or description on the label.
18	
19 20	G. Labelling
20	Each rateil container shall be labeled and marked with the information in
21	Each retail container shall be labeled and marked with the information in accordance with AO 2014-0030 "Revised Rules and Regulations Governing The
22	Labeling of Prepackaged Food Products Further Amending Certain Provisions of
23 24	Administrative Order No. 88-B s. 1984 or the "Rules and Regulations Governing
24 25	the Labeling of Prepackaged Food Products Distributed in the Philippines," and
26 27	For Other Purposes" and its future amendments.
27 28	a. A complete list of ingredients shall be declared in descending order of
20	a. A complete list of ingredients shall be declared in descending order of proportion.
29 30	proportion.
30 31	b. Food additives used shall be declared by indicating their common name
32	and their functional categories provided under Bureau Circular No.
	2006-016 and its latest amendments.
33	
34	Examples: Caramel III as color or Food color (Caramel)
35	H. All vinegar shall not contain any mineral acid.
36	
37	I. Vinegar containing any artificial matter such as synthetic acetic acid or cloudifying
38	agent shall be deemed to be adulterated and its sale is thereby prohibited.
39	
40	VII. SEPARABILITY CLAUSE
41 42	If any provision of this Orden is declared an experimental or investigation
42	If any provision of this Order is declared unconstitutional or invalid by any
43	court of law or competent authority, the remaining provisions not affected thereby
44	shall remain valid and effective.
45	
46	
47	

1	VIII.	PENALTY CLAUSE
2 3 4 5 6 7		Any establishment found in violation of any provision of this issuance after the transitory period shall be subject to the applicable penalties and sanctions indicated in RA No. 9711 and RA No. 10611 and their respective Implementing Rules and Regulations.
9 10 11 12	IX.	TRANSITORY PROVISIONS Food establishments engaged in the manufacture, trade, repacking, and distribution of vinegar for the Philippine market are given a transitory period of twelve (12) months to comply with these guidelines.
13	Х.	MONITORING AND REVIEW CLAUSE
14 15 16 17		This Order shall be reviewed and evaluated within three (3) years of its implementation to determine whether the policy's objectives, impact, and effectiveness are achieved.
18	XI.	REPEALING CLAUSE
19 20 21 22 23 24		Administrative Order No. 134 s. 1970 entitled "Regulation Prescribing the Standards of Identity and Quality of Vinegar (B-4.9 Condiments, Sauces, Seasoning)" are hereby repealed. Other issuances or parts thereof which are found to be inconsistent with the provisions of this AO are hereby repealed accordingly.
25	XII.	EFFECTIVITY
26 27 28 29		This Order shall take effect after fifteen (15) days following the publication in the Official Gazette or in a newspaper of general circulation and filing with the Office of the National Administrative Register of the UP Law Center.
30 31 32 33		DR. TEODORO J. HERBOSA
34		SECRETARY OF HEALTH
35 36	DTN: 2023021	3102709
37 38 39 40 41 42 43 44 45		

1	
2	ANNEX A
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5	METHODS OF SAMPLING AND ANALYSIS
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7	
8	a. Method of Sampling
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10	Sampling shall be in accordance with the FAO/WHO Codex Alimentarius
11	Sampling Plans for Prepackaged Foods (CAC/RM 42-1969), Codex
12	Alimentarius Volume 13, 1994 (Annex E), and its series of subsequent
13	amendments.
14	
15	b. Methods of Analysis
16	
17	Total Acid as acetic acid – AOAC 930.35
18	
19	Heavy Metals:
20	Arsenic- AOAC 952.13 or other validated/verified method
21	Lead- AOAC 972.23 or other validated/verified method
22	
23	