

VERIFICATION OF NATURAL FLAVOR

This form must be completed by the supplier or manufacturer of each natural flavor used by PCO-certified operations in products labeled as "organic" or "made with organic (specified food groups)." PCO may require additional information if needed to verify compliance with applicable regulations and policies. Relevant definitions are included on page 3.

The USDA National Organic Program (NOP) regulations allow for nonsynthetic natural flavors at 7 CFR 205.605(a):

"Flavors – nonsynthetic flavors may be used when organic flavors are not commercially available. All flavors must be derived from organic or nonsynthetic sources only and must not be produced using synthetic solvents and carrier systems or any artificial preservatives." In addition, the organic regulations prohibit the use of genetic modification, ionizing radiation, and sewage sludge.

Supplier/Manufacturer Name:
Flavor name and code on technical data sheet:
1. Does the natural flavor and all its flavor constituents meet the FDA definition of a natural flavor (found on page 3)? Yes No
2. List all specific sources of the flavor (e.g. spice, plant part, essential oil, etc).
3. Is the material only formulated for flavoring purposes (no nutritional use/other functions)? Yes No
 4. Do the flavoring agent(s) in this material only consist of substances that do not impart a specific characteristic flavor, such as flavorings with modifying properties? For example, if the only flavoring agent in the material is Luo Han Guo (Monk Fruit) derived products, Thaumatin, Glycosylated Steviol Glycosides, or similar the response should be Yes. Yes No If Yes, attach documentation detailing the maximum usage rate for the overall flavor material to qualify
as a natural flavor: Attached N/A
5. Is/are the natural flavor constituents(s) made using NOP compliant (non-synthetic) extraction materials? Allowed natural extraction materials include natural ethanol, super-critical carbon dioxide, authentic essential oil, and natural vegetable oils. No hydrocarbon, chlorinated, or halogenated solvents may be used. Propane, hexane, triglycerides, and freon are examples of solvents that are prohibited. Yes \(\sum \text{NO} \sum \sum \text{N/A}, \text{ no extraction materials are used.} \)
 If Yes, list solvent(s)/extraction material(s) used in the production of the natural flavor. If alcohol/ethanol is used, please indicate whether it is produced via fermentation:
 6. List any carrier systems(s) used in this Natural Flavor. If maltodextrin is used as a carrier, please attach confirmation from the supplier/manufacturer that enzymes are primarily responsible for hydrolysis.
Pennsylvania Certified Organic (PCO) pco@paorganic.org • www.paorganic.org • 106 School Street, Suite 201 • Spring Mills, PA 16875 • 814.422.0251 • fax 814.422.0255

 If glycerin is used as a carrier or solvent, please p Verification of Non-Organic Ingredient form and glycerin is produced from agricultural source mat mechanical/physical methods. 	confirmation from the supplier/manufacturer that the terials and processed using biological or
 7. List any preservative(s) used in this Natural Flavor. If citric acid is used as a preservative, is it produced by the second of the sec	N/A, no preservative(s) used. luced via fermentation of carbohydrates?
8. List all other non-flavor ingredients/adjuvants aside from the function they serve in the flavor. N/A, no other flavor aside from those identified elsewhere on this form.	r non-flavor ingredients/adjuvants are present in the .
Non-Flavor Ingredient/Adjuvant	Function in the Flavor
— ·	certified under the NOP. Please see the following
 10. Ionizing radiation is prohibited for the treatment of orga products. Other forms of radiation, including those used for meet applicable regulations that establish limitations per per section. This natural flavor has been handled without the 179.26(US). Yes No 	for food inspection, are permitted providing the uses taining to all (organic and non-organic) food products.
11. Sewage sludge is prohibited for use in the production products certified under the NOP.	and handling of non-organic flavors used in
	riers, preservatives or other processing aids used or without the use of sewage sludge as defined at 7
12. Check here to OMIT this material from PCO's printed Allo	owed Materials List (e.g. custom or proprietary inputs).
Relevant definitions:	
or extractive, protein hydrolysate, distillate, or any pro the flavoring constituents derived from a spice, fruit o herb, bark, bud, root, leaf or similar plant material, me products thereof, whose significant function in food is	atural flavoring means the essential oil, oleoresin, essence oduct of roasting, heating or enzymolysis, which contains in fruit juice, vegetable or vegetable juice, edible yeast, eat, seafood, poultry, eggs, dairy products, or fermentation flavoring rather than nutritional. Natural flavors include its listed in 88 182 10, 182 20, 182 40, and 182 50 and part

Pennsylvania Certified Organic (PCO)

- 184 of this chapter, and the substances listed in 172.510 of this chapter. (21 CFR 101.22(a)(3))
- NOP definition of Nonsynthetic A nonsynthetic (natural) substance is derived from mineral, plant, or animal matter and does not undergo a synthetic process as defined in section 6502(21) of the Act (7 U.S.C. 6502(21)). (7 CFR 205.2)
- NOP definition of Synthetic A synthetic substance is formulated or manufactured by a chemical process or by a process that chemically changes a substance extracted from naturally occurring plant, animal or mineral sources, except that such term shall not apply to substances created by naturally occurring biological processes. (7 CFR 205.2)
- NOP definition of Excluded Methods- Excluded methods are defined as a variety of methods used to genetically
 modify organisms or influence their growth and development by means that are not possible under natural
 conditions or processes and are not considered compatible with organic production. Such methods include cell
 fusion, microencapsulation and macroencapsulation, and recombinant DNA technology (including gene deletion,
 gene doubling, introducing a foreign gene, and changing the positions of genes when achieved by recombinant
 DNA technology). Such methods do not include the use of traditional breeding, conjugation, fermentation,
 hybridization, in vitro fertilization, or tissue culture.(7 CFR 205.2)

To be signed by the manufacturer or supplier. Signer must be a qualified technical person.

Pursuant to applicable regulations, I, on behalf of the supplier or manufacturer, hereby attest that the information provided in this form is accurate and truthful to the best of my knowledge.

Signature:		Date:	
Printed Name:	Title:		
Address:			
City:	State:	Zip:	
Phone:	Email:		

PROHIBITED EXCLUDED METHODS INCLUDE, BUT ARE NOT LIMITED TO:

Method and synonyms	Туреѕ
Targeted genetic modification (TagMo) syn. Synthetic gene technologies syn. Genome engineering syn. Gene editing syn. Gene targeting	Sequence-specific nucleases (SSNs) Meganucleases Zinc finger nuclease (ZFN) Mutagenesis via Oligonucleotides CRISPR-Cas system (Clustered regularly interspaced short palindromic repeats) and associated protein genes TALENs (Transcription activator-like effector nucleases) Oligonucleotide directed mutagenesis (ODM) Rapid Trait Development System
Gene Silencing	RNA-dependent DNA methylation (RdDM) Silencing via RNAi pathway RNAi

Pennsylvania Certified Organic (PCO)

	pesticides
Accelerated plant breeding techniques	Reverse Breeding Genome Elimination FasTrack Fast flowering
Synthetic biology	Creating new DNA sequences Synthetic chromosomes Engineered biological functions and systems
Cloned animals and offspring	Somatic nuclear transfer
Plastic transformation	
Cisgenesis	The gene modification of a recipient plant with a natural gene from a crossable-sexually compatible-plant. The introduced gene includes its introns and is flanked by its native promoter and terminator in the normal-sense orientation.
Intragenesis	The full or partial coding of DNA sequences of genes originating from the sexually compatible gene pool of the recipient plant and arranged in sense or antisense orientation. In addition, the promoter, spacer, and terminator may originate from a sexually compatible gene pool of the recipient plant.
Agro-infiltration	
Transposons – Developed via use of in vitro nucleic acid techniques	
Induced mutagenesis	Developed through in vitro nucleic acid techniques