

NON-MEAT INGREDIENTS & LABELING PROCESSED PRODUCTS

Chris R. Kerth
Texas A&M University

Quality Factors in Meat

- ▣ Water-holding
- ▣ Color
- ▣ Oxidative stability
 - Color
 - Rancidity of fat
- ▣ Microbial contamination
- ▣ Tenderness (the grinder can always fix this)

INGREDIENTS

Water

- ▣ Uses and Restrictions
 - Brines, marinades
 - Restricted by regulatory limits (product dependent)
 - Subject to labeling requirements (“Ham with water added”)
 - 3% allowed in fresh sausage - mixing aid
 - % Water in Cooked Sausage - $4 P\% + 10\%$
 - 40% Rule (fat + water cannot exceed 40%)

PFF

- ▣ As we add more water to a product, the PFF decreases (w/o fat, water and protein are all that is left).
- ▣ $PFF = (\%Protein) / (100 - \%Fat)$
- ▣ As PFF decreases, the legal name of certain products changes.

Type of Cured Pork Product	Minimum Meat PFF Percentage ²	Product Name and Qualifying Statements
Cooked ham, loin ³	20.5	(Common and usual)
	18.5	(Common and usual) with natural juices
	17.0	(Common and usual) water added
	<17.0	(Common and usual) and water product; –X% of weight is added ingredients ⁴



INGREDIENTS

Salt (NaCl)



Functions

- Preservative (Cl⁻ is bacteriostatic)
- Flavor enhancer (Na⁺)
- Increases SSP extraction for binding meat pieces
- Increases WHC of proteins
- Lowers water activity

Typical Use Levels

- 0.5 - 1% (marinated product)
- 1.5 - 2% (bacon)
- 2 - 3% (sausages & ham)
- 4 - 5% (dried products/jerky)
- Rule of thumb 1-3%

INGREDIENTS

Sweeteners



Functions

- Reduce harshness of salt
- Enhance flavor and color -Browning (Maillard) reaction
A reducing sugar (glucose) reacts with protein amino groups giving brown color and flavor.
- Moisture retention
- Nutrient for starter cultures in fermented products

Uses and Restrictions

- Brines, marinades, direct addition of crystals or syrup
- 1 - 2.5% in final product
- Dextrose (glucose), sucrose, honey, corn syrup, corn syrup solids, sorbitol $\leq 2\%$
- Sucralose ≤ 500 ppm
- Sugar substitutes - Sweet and Low®, Splenda®

Artificial Sweeteners



INGREDIENTS

Alkaline Phosphates

- ▣ Functions
 - Increases water holding capacity (WHC)
 - Increases pH
 - Retards color changes and rancidity
 - Reduce Lipid Oxidation
 - pH Control

- ▣ Uses and Restrictions
 - Brines, marinades, direct addition
 - 0.2-0.5% maximum
 - Mix in brines first, then other ingredients
 - Excess use causes “soapy” taste, rubbery texture

- ▣ Sodium tripolyphosphate (STPP primary phosphate)

INGREDIENTS

Sodium Nitrite (Curing Agent)

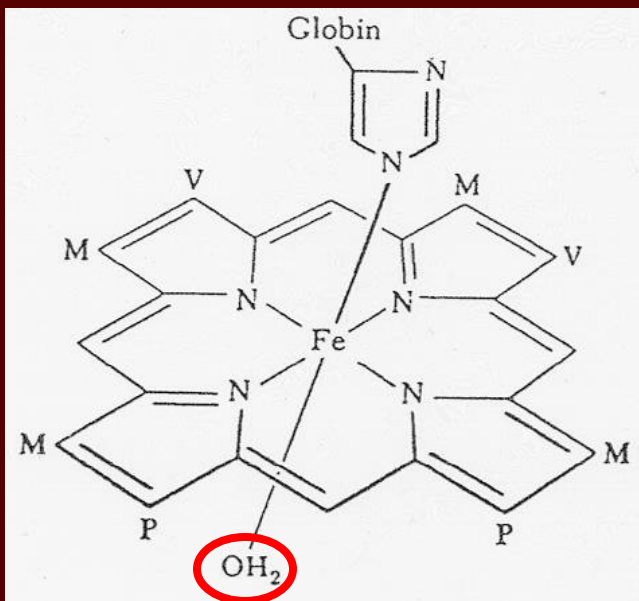


Functions

- Curing agent - cured meat color and flavor
- Cured color - $\text{NO}_2^- \rightarrow \text{NO}$ reacts with Mb to develop cured meat color
- Prevents *Clostridium botulinum* spore outgrowth
- Retards fat oxidation
- Usually bonded to salt - 6.25% nitrite, 93.75% salt (Prague Powder)
- Includes celery powder
 - Celery powder requires the use of a micrococcus starter culture to reduce **nitrate**
 - Pre-converted celery powder (most widely used) is chemically converted to all **nitrite**

Artificial Sweeteners

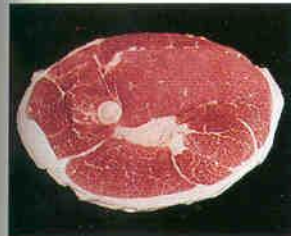




Replaced by NO
(nitric oxide)
Forms
nitrosomyoglobin



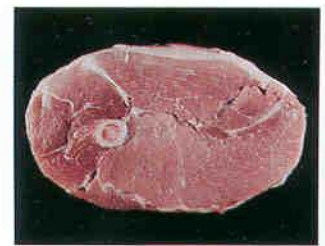
MYOGLOBIN
Purple-Red
Freshly cut surface.



NITROSO MYOGLOBIN
Dark Red



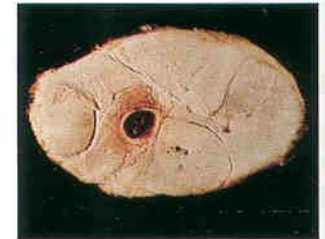
NITROSOHEMOCHROME
Light Pink
Typical "Cured meat color".



OXYMYOGLOBIN
Bright Pink
Typical "Fresh meat color".



METMYOGLOBIN
Brown



DENATURED METMYOGLOBIN
Grey Brown
Typical "Cooked fresh meat color".



OXIDIZED PORPHYRINS
Green, Yellow, Colorless

Plus Oxygen
Minus Oxygen

Loss of Electron (Oxidation)
Electron Gain (Reduction)

Loss of Electron (Oxidation)
Gain of Electron (reduction) plus NO

Loss of Electron (Oxidation)
Gain of Electron (reduction) plus NO

Electron Loss (Oxidation)

Non-Reversible
Reversible



INGREDIENTS: GRASS-FED BEEF^{**}, WATER. CONTAINS LESS THAN 2% OF THE FOLLOWING: SEA SALT, PAPRIKA, DEHYDRATED ONION, SPICES, NUTMEG OIL, CELERY POWDER.

DISTRIBUTED BY APPLEGATE FARMS, BRIDGEWATER, NJ 08807
QUESTIONS? VISIT HELP.APPLEGATE.COM OR CALL 866-587-5858

FULLY COOKED. BEST WITHIN 4 DAYS OF OPENING. MAY BE FROZEN FOR UP TO 9 MONTHS.

*MINIMALLY PROCESSED. NO ARTIFICIAL INGREDIENTS.
*BEEF RAISED & FED A DIET IN COMPLIANCE WITH THE NON-GMO PROJECT STANDARD FOR AVOIDANCE OF GENETICALLY ENGINEERED INGREDIENTS. **EXCEPT THOSE NATURALLY OCCURRING IN SEA SALT & CELERY POWDER.
***BEEF NEVER ADMINISTERED ANTIBIOTICS. ADDED

INGREDIENTS: ORGANIC GRASS-FED BEEF^{**}, WATER. CONTAINS LESS THAN 2% OF THE FOLLOWING: SEA SALT, ORGANIC SPICES, ORGANIC DEHYDRATED GARLIC, ORGANIC DEHYDRATED ONION, ORGANIC PAPRIKA, CELERY POWDER.

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CERTIFIED ORGANIC BY QUALITY ASSURANCE INTERNATIONAL
QUESTIONS? VISIT HELP.APPLEGATE.COM OR CALL 866-587-5858

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TO LEARN MORE ABOUT APPLEGATE HUMANELY RAISED

INGREDIENTS

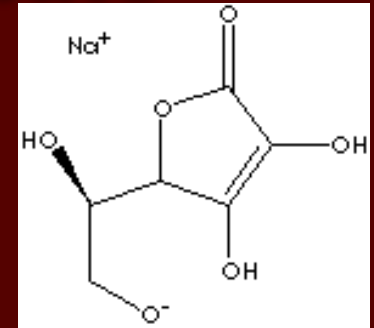
Sodium Ascorbate/ Erythorbate

▣ Functions

- Accelerates cure reaction, cure color formation
- Provides reducing conditions for NO₂ conversion to NO
- Antioxidant to stabilize color, flavor

▣ Uses and Restrictions

- 550ppm maximum permitted (required for bacon)
- Avoid use of ascorbic *acid* (vitamin C; use sodium or salt form with nitrite)





SERVING SUGGESTION

LIT'L SMOKIES®

SMOKED SAUSAGE
MADE WITH PORK & CHICKEN

Nutrition Facts

Serving size 5 Links (60g)
Servings: About 7
Calories 190
Fat Cal. 150

*Percent Daily Values (DV) are based on a 2,000 calorie diet.

Amount/serving	%DV*	Amount/serving	%DV*
Total Fat 17g	26%	Total Carb. 2g	1%
Sat. Fat 6g	30%	Fiber 0g	0%
Trans Fat 0g		Sugars 1g	
Cholest. 40mg	13%	Protein 7g	
Sodium 530mg	22%		
Vitamin A 0% • Vitamin C 0% • Calcium 4% • Iron 2%			

Fully Cooked
Keep Refrigerated
Heat & Eat



NET WT
14 OZ (396 g)

Ingredients: Pork, Mechanically Separated Chicken, Water, Corn Syrup, Contains 2% Or Less: Potassium Lactate, Salt, Dextrose, Natural Flavors, Sodium Phosphate, Monosodium Glutamate, Sodium Diacetate, Sodium Erythorbate, Sodium Nitrite, Hydrolyzed Beef Stock.

DISTRIBUTED BY: THE HILLSHIRE BRANDS COMPANY
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AUG 31 21 BF13
EST 89A

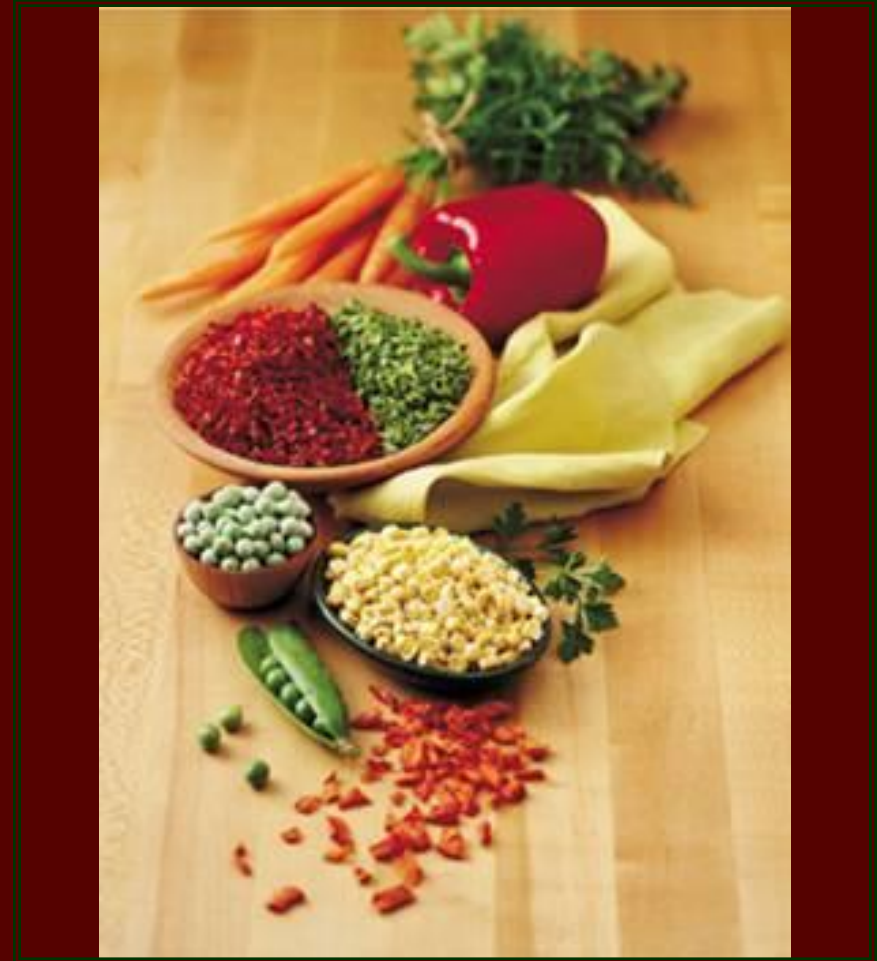
USE BY DATE SHOWN
ONCE OPENED USE WITHIN 7 DAYS.



11721236
1920992

FLAVOR ENHANCERS

- ▣ Monosodium glutamate (MSG)
 - Meatiness and salty flavors
 - 2-3 oz/100 lbs
- ▣ Hydrolyzed vegetable protein (HVP)
 - 2-10 oz/100 lbs
- ▣ Autolyzed yeast extracts
 - Superior flavor modifier
 - 2-16 oz/100 lbs





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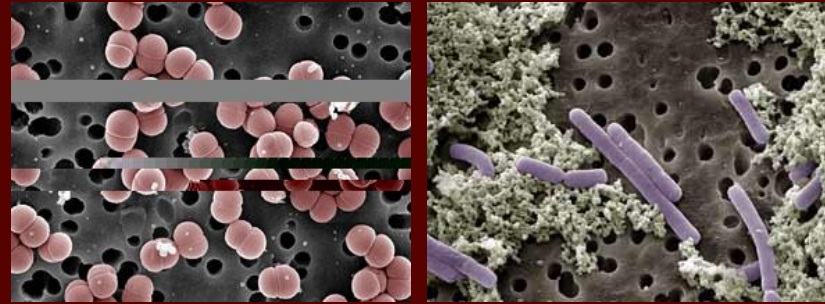
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INGREDIENTS

Starter Cultures



Pediococcus pentosaceus, Lactobacillus casei

- ▣ Functions
 - Acidification by bacterial conversion of glucose to L-lactic acid
 - Acidity produced retards *Staphylococcus aureus* growth
 - Typical acidification to pH 4.6 - 5.0 within a specified time frame

- ▣ Uses and Restrictions
 - Dry and semi-dry sausages
 - *Pedicococcus*, *Lactobacillus*, *Micrococcus*, and other species
 - Requires 6- 18 hrs fermentation time at (70-95° F, 21-35° C)
 - Lactic acid bacteria
 - Frozen/freeze-dried

H-E-B
PEPPERONI
 Thick Slices

Nutrition Facts

Serving Size 6 slices (28g)
 Servings Per Container 6

Amount Per Serving
Calories 130 Calories from Fat 110

	% Daily Value*
Total Fat 12g	18%
Saturated Fat 4.5g	23%
Cholesterol 20mg	7%
Sodium 570mg	24%
Total Carbohydrate 0g	0%
Protein 6g	

Iron 2%
 Not a significant source of trans fat, dietary fiber, sugars, vitamin A, vitamin C, and calcium.
 *Percent Daily Values are based on a 2,000 calorie diet.

INGREDIENTS: PORK, BEEF, SALT, CONTAINS 2% OR LESS OF THE FOLLOWING: DEXTROSE, SPICES, DIMETHYL PAPERIKA, SODIUM ERYTHORBATE, FLAVORINGS, LACTIC ACID STARTER CULTURE, SODIUM NITRITE

MADE WITH PRIDE AND CARE FOR

H-E-B®, SAN ANTONIO, TEXAS 78204

H-E-B
 If you aren't completely pleased with this product, we'll be happy to replace it or refund your money. You have our word on it.
100% GUARANTEE promise *Charlie Brett*

M13101A



H-E-B
TURKEY PEPPERONI
 BHA, BHT, and Citric Acid Added to Help Protect Flavor
 *65% Less Fat than our Regular Pork and Beef Pepperoni
Slices

*FAT REDUCED FROM 12g to 4g PER SERVING

Amount/serving %DV*		Amount/serving %DV*	
Total Fat 4g	6%	Total Carb. 1g	0%
Sat. Fat 1g	5%	Fiber 0g	0%
Trans Fat 0g		Sugars less than 1g	
Cholest. 25mg	8%	Protein 9g	
Sodium 380mg	16%		

Serv. Size 16 slices (28g)
 Servings about 5
 Calories 70
 Fat Cal. 35
 *Percent Daily Values (DV) are based on a 2,000 calorie diet. Vitamin A 0% • Vitamin C 0% • Calcium 0% • Iron 4%

INGREDIENTS: TURKEY, SALT, CONTAINS 2% OR LESS OF THE FOLLOWING: NATURAL FLAVORS, WATER, DEXTROSE, LACTIC ACID STARTER CULTURE, BLEND OF PAPRIKA, DEHYDRATED GRANULATED GARLIC, SODIUM NITRITE, BHA, BHT, CITRIC ACID.
 MADE WITH PRIDE AND CARE FOR H-E-B®, SAN ANTONIO, TX 78204

100% GUARANTEE promise
 If you aren't completely pleased with this product, we'll be happy to replace it or refund your money. You have our word on it.
Charlie Brett



REFRIGERATE AFTER OPENING
 0361548

NET WT: 5 OZ (142 g)



Sodium/ Potassium Lactate

Functions

- Inhibition of *L. monocytogenes*, *C. botulinum* growth
- Weak acid, disrupts membrane pH gradients
- Inhibits bacteria energy metabolism
- Extends lag phase growth of bacteria

Uses and Restrictions

- Brines, marinades, direct to minced products
- Allowed in uncooked and cooked meats
- 4.8% maximum - weight of total formulation
- 2-3% typical use level
- Not permitted in infant foods



Sodium/ Potassium Diacetate

- Brines, marinades, dry ingredient
- 0.25% maximum - weight of total formulation
- 0.1-0.15% use level
- Not permitted in infant foods
- Combination with sodium lactate and diacetate not permitted in all fresh meats unless licensed for use (Hormel patent)

EST. 1934
HILLSHIRE FARM



LIT'L SMOKIES[®]

SMOKED SAUSAGE
MADE WITH PORK & CHICKEN

SERVING SUGGESTION

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USE BY DATE SHOWN
ONCE OPENED USE WITHIN 7 DAYS.

Fully Cooked
Keep Refrigerated
Heat & Eat



NET WT
14 OZ (396 g)



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1920992

INGREDIENTS

Antioxidants

▣ Fat Soluble

- Butylated hydroxyanisole (BHA)
- Butylated hydroxytoluene (BHT)
- Tertiary butylhydroquinone (TBHQ)
- Propyl gallate (PG)

▣ Water Soluble

- Alpha tocopherol (Vit E)
- Citric and Ascorbic acid

▣ Spices

- ▣ (pepper, paprika, mace, rosemary, garlic, ginger, oregano, sage, thyme, turmeric)

▣ Spice extractive

- ▣ (rosemary)



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BHA, BHT, and Citric Acid Added to Help Protect Flavor

*65% Less Fat than our Regular Pork and Beef Pepperoni

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*FAT REDUCED FROM 12g TO 4g PER SERVING

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Cholest. 25mg	8%	Protein 9g	
Sodium 380mg	16%		

Vitamin A 0% • Vitamin C 0% • Calcium 0% • Iron 4%

100%
GUARANTEE
promise

If you aren't completely pleased with this product, we'll be happy to replace it or refund your money. You have our word on it.

Charles Brett



INGREDIENTS: TURKEY, SALT, CONTAINS 2% OR LESS OF: NATURAL FLAVORS, WATER, DEXTROSE, LACTIC ACID STARTER CULTURE, ONION POWDER, GARLIC POWDER, DEHYDRATED GRANULATED GARLIC, SODIUM NITRITE, BHA, BHT, CITRIC ACID. MADE WITH PRIDE AND CARE FOR H-E-B, SAN ANTONIO, TX 78204

REFRIGERATE
AFTER OPENING
0361548

NET WT. 5 OZ (142 g)



MEAT & MOISTURE BINDERS – Proteins

Soy Protein Concentrate and **Isolate**

Milk Proteins (NFDM, Whey and **Caseinate**)

Functions

- Reduce cooking loss, reduce costs, increase yield, maintain meat-like texture
- Increase WHC and protein content
- Gel formation binds product pieces and water



Uses and Restrictions

- Rehydrate SPI 4:1, SPC 3:1
- Use SPC (70% P) up to 11% (DWB); ground poultry, sausages, fillings, coatings
- **Use SPI (90% P) at 1-2 % (DWB); brine products**
- Add flavorants to offset flavor dilution
- Dry application to sausages, 0.5 to 2% (Milk Proteins)



INGREDIENTS: MECHANICALLY SEPARATED CHICKEN, BEEF, CHICKEN BROTH (WATER, CHICKEN BROTH), CEREAL (GROUND CORN, WHEAT, RYE, OATS & RICE), WATER, SALT, AND 2% OR LESS OF FLAVORINGS & COLORING MUSTARD, CORN STARCH, SUGAR, DEXTROSE, SODIUM PHOSPHATE, SODIUM NITRITE, SODIUM ERYTHORBATE, NATURAL HICKORY SMOKE FLAVOR. PACKED IN NATURAL PORK CASING. DIST. BY CHOICE CUTS LTD., HOUSTON, TX. 77226



8 servings per container
Serving size 1 frank (43g)

Amount per serving	% Daily Value*
Calories 70	
Total Fat 5g	7%
Saturated Fat 1g	4%
Trans Fat 0g	
Cholesterol 25mg	9%
Sodium 310mg	13%
Total Carbohydrate 2g	1%
Dietary Fiber 0g	0%
Total Sugars 0g	
Includes 0g Added Sugars	0%
Protein 4g	

Vit. D 0mg 0% • Calcium 0mg 0%
 Iron 0.3mg 2% • Potas. 210mg 4%

*The % Daily Value tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

INGREDIENTS: MECHANICALLY SEPARATED CHICKEN, WATER, MECHANICALLY SEPARATED PORK, SUGAR, POTATO STARCH, SALT, POTASSIUM DIACETATE, BEEF, SODIUM PHOSPHATE, DRIED GARLIC, SMOKE FLAVOR, SODIUM DIACETATE, SODIUM ERYTHORBATE, SPICE EXTRACTS, SODIUM NITRITE, PAPRIKA EXTRACT.

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SAVINGS TO FEEL GOOD ABOUT™
 If not, we will cheerfully refund your money.



03608808

	Amount/serving	%DV*	Amount/serving	%DV*
Total Fat	12g	18%	Total Carb.	1g 0%
Sat. Fat	5g	25%	Fiber	0g 0%
Protein	20mg	7%	Sugars	0g
Sodium	480mg	20%	Protein	5g

Vitamin A 0% • Vitamin C 0% • Calcium 0% • Iron 2%

INGREDIENTS: BEEF, WATER, CONTAINS 2% OR LESS OF SALT, SORBITOL, SODIUM LACTATE, NATURAL FLAVORINGS, SODIUM PHOSPHATE, HYDROLYZED CORN PROTEIN, PAPRIKA, SODIUM DIACETATE, SODIUM ERYTHORBATE, SODIUM NITRITE.

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 P.O. BOX 405026
 CINCINNATI, OH 45240
 www.nathansfamous.com
 UNDER LICENSE FROM
 NATHAN'S FAMOUS SYSTEMS, INC.,
 JERICHO, NY 11753

8 8831

NET WT. 1.36 Kg (3.00 Lbs)

Labeling Basics

FSIS–FDA Jurisdiction Determined by Meat / Poultry Content of Product

- ▣ FSIS regulates products containing
 - 2% or more cooked meat or poultry meat
 - 3% or more raw meat or poultry meat
- ▣ FDA regulates “meat flavored” sauces and soups with less than 2% meat or poultry meat

FSIS Promotes and Strictly Enforces Product Standards of Identity

Examples:

- Ham
 - Ham with Natural Juices
 - Ham Water Added
 - Ham and Water Product
- Hot Dogs/Frankfurters :
 - Maximum 40% fat and water
 - No by-products (skin, snouts, organ meat, etc.)
- Ground Beef:
 - May contain no more than 30% fat
- Veal Cutlet:
 - Single slice of veal from the round

Required Information on a Label (9 CFR 317.2/381 Subpart N)

- Up to 8 required features
 - Product name
 - Inspection legend and est. number
 - Handling statement**
 - Net weight statement
 - Ingredients statement
 - Address line
 - Nutrition facts
 - Safe handling instructions**



Nutrition Facts	
Serving: 2 sliced slices (15g)	
Amount Per Serving	
Calories 80	Calories from Fat 50
% Daily Value*	
Total Fat 6g	9%
Saturated Fat 2g	10%
Sodium 170mg	7%
Total Carbohydrate 0g	0%
Protein 7g	

*Percent Daily Values are based on a diet of 2,000 calories.

INGREDIENTS: PORK, WATER, SEA SALT, NATURAL CANE SUGAR, CELERY POWDER, CHERRY POWDER.

MADE WITH PRIDE AND CARE FOR H-E-B, SAN ANTONIO, TEXAS 78264

100% GUARANTEE promise

If you aren't completely satisfied with this product, we'll take it back or refund your money. You have our word on it.

Charles Beer

SAFE HANDLING INSTRUCTIONS

THIS PRODUCT WAS PREPARED FROM INSPECTED AND PASSED MEAT AND/OR POULTRY. SOME FOOD PRODUCTS MAY CONTAIN BACTERIA THAT COULD CAUSE ILLNESS IF THE PRODUCT IS MISHANDLED OR COOKED IMPROPERLY. FOR YOUR PROTECTION, FOLLOW THESE SAFE HANDLING INSTRUCTIONS.

- KEEP REFRIGERATED OR FROZEN. THAW IN REFRIGERATOR OR MICROWAVE.
- KEEP RAW MEAT AND POULTRY SEPARATE FROM OTHER FOODS, INCLUDING CUTTING BOARDS, UTENSILS, AND HANDS AFTER TOUCHING RAW MEAT OR POULTRY.
- COOK THOROUGHLY.
- KEEP HOT FOODS HOT. REFRIGERATE LEFTOVERS IMMEDIATELY OR DISCARD.

H-E-B Natural* Applewood Smoked Uncured Bacon is made from pork which is never, ever raised with antibiotics or added artificial growth stimulants, never fed animal by-products, and is minimally processed. It's made with no nitrites added and no MSG added, no fillers and is Gluten Free. It's the natural choice for bringing home the bacon.

COOKING INSTRUCTIONS

PAN FRY: Cook in skillet over low heat 12-14 minutes. Turn frequently, allowing slices to brown evenly.

BAKE: Place separated slices on rack in shallow pan. Bake about 12 minutes at 400°F. No turning necessary.

MICROWAVE: Place slices on paper towels in shallow glass container or paper plate. Cover with additional paper towels. Cook on HIGH power, 2 slices for 2 min 15 sec to 2 min 45 sec.

Mandatory Handling Statements

- ▣ Perishable product preserved by chilling
 - “Keep Frozen”; “Keep Refrigerated”
 - “Keep Refrigerated or Frozen”

- ▣ Perishable cooked product shipped hot
 - Product receives a heat lethality treatment
 - “This product must either be maintained at no less than 140⁰ F during shipment or discarded”

Safe Handling Instructions

- ▣ Mandatory when meat and poultry product is raw or partially cooked
- ▣ Specific format for word size
- ▣ Graphics mandated

Safe Handling Instructions

This product was prepared from inspected and passed meat and/or poultry. Some food products may contain bacteria that could cause illness if the product is mishandled or cooked improperly. For your protection, follow these safe handling instructions.



Keep refrigerated or frozen. Thaw in refrigerator or microwave.



Keep raw meat and poultry separate from other foods. Wash working surfaces (including cutting boards), utensils, and hands after touching raw meat or poultry.



Cook thoroughly.



Keep hot foods hot. Refrigerate leftovers immediately or discard.

Generic Approvals – New Labels

9 CFR 317.5/381.133

- ▣ Standardized products **without special claims**, guarantees or foreign language
- ▣ Single ingredient products **without special claims**, guarantees or foreign language
- ▣ Products with contract specification for Federal Government agencies
- ▣ Shipping containers
- ▣ Inspection legends

Claims





Potassium 280mg 6%

*The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories in a day is used for general nutrition advice.

INGREDIENTS: Water, Pea Protein*, Expeller-Pressed Canola Oil, Refined Coconut Oil, Rice Protein, Natural Flavors, Cocoa Butter, Mung Bean Protein, Methylcellulose, Potato Starch, Apple Extract, Pomegranate Extract, Salt, Potassium Chloride, Vinegar, Lemon Juice Concentrate, Sunflower Lecithin, Beet Juice Extract (for color).

*Peas are legumes. People with severe allergies to legumes like peanuts should be cautious when introducing pea protein into their diet because of the possibility of a pea allergy. Contains no peanuts or tree nuts.

Manufactured For Beyond Meat®
119 Standard St., El Segundo, CA 90245
866.756.4112
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Safe handling
Some raw products cause illness if misused

- Keep refrigerator clean
- Wash work surfaces, utensils, and hands
- Cook thoroughly
- Keep hot foods hot

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ALL FLAVOR. NO COW.

Burgers, tacos, lasagna...use like **ground beef** in your favorite recipes!

Make the Impossible Burger at home:
Pre-heat pan to MEDIUM-HIGH, or grill to HIGH heat.
Cook a 1/4 lb. patty 5-6 min, flip halfway through.
Cook to taste. Fully cooked when interior is 160°F.

For more recipes & tips visit ImpossibleFoods.com/recipes

Nutrition Facts	Amount/serving		%DV	
	Amount/serving	%DV	Amount/serving	%DV
3 servings per container	Total Fat 14g	18%	Total Carb. 9g	3%
	Saturated Fat 8g	40%	Dietary Fiber 3g	11%
	Trans Fat 0g		Total Sugars <1g	
Serving size 4oz. (113g)	Cholesterol 0mg	0%	Incl. <1g Added Sugars	1%
	Sodium 370mg	16%	Protein 19g	31%
Calories per serving 240	Vitamin D 0mcg 0% • Calcium 170mg 15% • Iron 4.2mg 25%			
	Potassium 610mg 15% • Thiamin 2350µg 15%			
	Niacin 50% • Vitamin B6 20% • Folate 30%			
	Vitamin B12 130% • Phosphorus 15% • Zinc 50%			
	INGREDIENTS: WATER, SOY PROTEIN CONCENTRATE, COCONUT OIL, SUNFLOWER OIL, NATURAL FLAVORS, 2% OR LESS OF: POTATO PROTEIN, METHYLCELLULOSE, YEAST EXTRACT, CULTURED DEXTROSE, FOOD STARCH MODIFIED, SOY LEGHEMOGLOBIN, SALT, SOY PROTEIN ISOLATE, MIXED TOCOPHEROLS (VITAMIN E), ZINC GLUCONATE, THIAMINE HYDROCHLORIDE (VITAMIN B1), SODIUM ASCORBATE (VITAMIN C), NIACIN, PYRIDOXINE HYDROCHLORIDE (VITAMIN B6), RIBOFLAVIN (VITAMIN B2), VITAMIN B12			
	CONTAINS: SOY GLUTEN FREE			

Manufactured For Impossible Foods Inc. 400 Saginaw Dr Redwood City, CA 94063 Hello@ImpossibleFoods.com

www.ecfr.gov

Reference:

Title 9 – Animals and Animal Products
especially Part 317 & Part 319

Title 21 – Food and Drugs

NON-MEAT INGREDIENTS & LABELING PROCESSED PRODUCTS

Chris R. Kerth
Texas A&M University