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NASA Space Food Formulations: Rehydratable Foods

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PRODUCT FORMULATION AND MATERIALS

The formulation (% by weight) for each product is in each individual table. All ingredients/raw materials shall be clean and free from objectionable foreign matter, approved for food use and have a typical odor, color, and flavor. All fresh ingredients that are used shall be sound, free from blemishes and of good quality. Materials shall be in excellent condition at time of use and from the freshest lot available and stored as recommended by the manufacturer. Ingredients/products shall be inspected to determine if damage occurred in shipment that would cause them to be unsafe for use. Damaged units shall be rejected.

Asparagus (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Asparagus	100.00	Fresh or Individually Quick Frozen (IQF) asparagus NOTE: If frozen, use 1” to 2“ lengths of U.S. Grade A frozen asparagus
TOTAL	**100.00**	**Asparagus, Freeze Dried, Raw Material**

Beef Pattie (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Beef Pattie	100.00	Individually Quick Frozen (IQF) lean beef burger, 3 oz., fully cooked [redacted]
TOTAL	**100.00**	**Beef Pattie, Freeze Dried, Raw Material**

Beef Stroganoff with Noodles (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Water	46.00	Water shall be from a potable source and free from contaminants.
Ground Beef Crumbles	15.00	[redacted] Cooked Seasoned Ground Beef Crumbles [redacted]
Water (Noodle Pick-up)	10.90	Water shall be from a potable source and free from contaminants. **NOTE**: This is NOT water added to the formulation but water absorbed by the noodles during cooking
Medium Egg Noodles	8.50	Medium Egg Noodles [redacted] **NOTE**: % based on dry weight
Sour Cream	8.00	Fresh sour cream, U.S. Grade A[redacted]
Mushrooms	6.50	Canned mushrooms, pieces and stems, no salt added [redacted] NOTE: % based on weight of drained mushrooms
Modified Food Starch, PRIMA 600	2.50	Modified food starch[redacted] [redacted]
Onion Powder	1.00	Onion Powder
Garlic Powder	0.50	Garlic Powder
Olive Oil	0.50	Olive oil, extra virgin
Beef Flavor	0.40	Beef Type Flavor [redacted]
White Pepper	0.20	White pepper, ground
TOTAL	**100.00**	**Beef Stroganoff with Noodles, Freeze Dried, Raw Material**

Braised Red Cabbage (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Red Cabbage	61.85	Fresh red cabbage, whole or shredded NOTE: If using whole red cabbage, % is based on outer leaves and core removed. [redacted]
Gala Apples	20.28	Fresh Gala apples NOTE: % is based on peeled, cored and trimmed apples
Apple Cider	9.06	Apple cider, 100% pure
Buttery Spread	6.22	Refrigerated, buttery spread (non-dairy) with Omega-3 [redacted]
Apple Cider Vinegar	1.83	Apple cider vinegar, 5% acidity
Garlic	0.56	Garlic, minced in water
Caraway Seeds	0.14	Caraway seeds, dried [redacted]
Black Pepper	0.04	Black pepper, ground
Allspice	0.02	Allspice, ground [redacted]
TOTAL	**100.00**	**Braised Red Cabbage, Raw Material**

Broccoli au Gratin (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Broccoli	62.93	Individually Quick Frozen (IQF) broccoli florets [redacted]
Water	17.00	Water shall be from a potable source and free from contaminants
Sharp Cheddar Cheese	11.28	Sharp cheddar cheese, shredded [redacted]
Water (Slurry for Instant Milk)	5.94	Water shall be from a potable source and free from contaminants
Unsalted Butter	0.96	Fresh unsalted butter, U.S. Grade AA, sweet cream
Instant Milk	0.96	Instant milk, 100% real, nonfat [redacted] NOTE: The powdered, instant milk shall be obtained in cans.
Modified Food Starch, PRIMA 600	0.67	Modified food starch [redacted]
Kosher Salt	0.11	Kosher salt, coarse
White pepper	0.03	White pepper, ground
Onion Powder	0.03	Onion powder
Garlic Powder	0.03	Garlic powder
Turmeric Powder	0.03	Turmeric powder
Nutritional Yeast	0.03	Nutritional yeast, inactive [redacted]
TOTAL	**100.00**	**Broccoli au Gratin, Freeze Dried, Raw Material**

Brussel Sprouts (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Brussels Sprouts	91.37	Individually Quick Frozen (IQF) Brussels sprouts, halves if possible
Balsamic Vinegar	5.80	Balsamic vinegar, [redacted] 6% acidity
Canola Oil with DHA	1.91	Canola oil plus Omega-3 DHA[redacted]
Black Pepper	0.46	Black pepper, ground[redacted]
Garlic Powder	0.46	Garlic powder [redacted]
TOTAL	**100.00**	**Brussels Sprouts, Raw Material**

Butternut Squash (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Butternut Squash	91.90	Individually Quick Frozen (IQF) butternut squash, diced
Olive Oil	5.90	Olive oil, extra virgin
Garlic	2.10	Garlic, minced in water
Black Pepper	0.10	Black pepper, ground
TOTAL	**100.00**	**Butternut Squash, Raw Material**

Cashew Chicken Curry (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Diced White Chicken	51.53	Frozen, ½" diced, white chicken, fully cooked [redacted]
Sea Salt Chicken Broth	5.02	Shelf stable organic chicken broth, free range, low sodium, fat free[redacted]
Diced Tomatoes	16.12	Canned tomatoes, diced, no salt added [redacted] **NOTES:** 1. Not more than 50 mg sodium per serving of diced tomatoes 2. % based on tomatoes and juice
Onion	9.63	Frozen white onions, diced
Yogurt	8.06	Fresh yogurt, plain, nonfat [redacted]
Cashews	4.32	Cashews, dry roasted, unsalted
Unsalted Butter	2.23	Fresh unsalted butter, U.S. Grade AA, sweet cream
Curry Powder	0.81	Curry powder [redacted]
Cilantro	0.71	Frozen cilantro cubes, chopped[redacted]
Chopped Ginger	0.62	Ginger, chopped in water[redacted]
Garlic	0.33	Garlic, minced in water
Lemon Juice	0.33	Lemon juice, natural strength from concentrate [redacted]
Kosher Salt	0.24	Kosher salt, coarse
Cumin	0.04	Cumin, ground [redacted]
Ground Cayenne Red Pepper	0.01	Ground cayenne red pepper [redacted]

TOTAL	**100.00**	**Cashew Chicken Curry, Freeze Dried, Raw Material**

Cauliflower with Cheese (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Cauliflower	72.00	Individually Quick Frozen (IQF) cauliflower florets
2% Milk	15.25	Fresh 2% milk, U.S. Grade A, pasteurized and homogenized
Medium Cheddar Cheese	7.40	Medium Cheddar cheese [redacted]
Sharp Cheddar Cheese	4.25	Sharp Cheddar cheese [redacted]
Corn Starch	0.50	Corn starch, 100% pure
Worcestershire Sauce	0.30	Worcestershire sauce, the Original [redacted]
Kosher Salt	0.20	Kosher salt, coarse
White Pepper	0.05	White pepper, ground
Onion Powder	0.05	Onion powder
TOTAL	**100.00**	**Cauliflower with Cheese, Freeze Dried, Raw Material**

Chicken Pineapple Salad (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Diced White Chicken	46.84	Frozen, ½" diced, white chicken, fully cooked [redacted]
Pineapple	22.59	Canned pineapple tidbits in its own juice [redacted] **NOTE:** % based on drained weight
Dressing	14.75	Dressing, Light [redacted]
Celery	9.46	Fresh celery stalks or fresh celery sticks **NOTE:** % based on weight with ends trimmed
Pecans	6.36	Pecans, chopped **NOTE:** From the freshest lot available
TOTAL	**100.00**	**Chicken-Pineapple Salad, Freeze Dried, Raw Material**

Corn (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Corn	100.00	Frozen corn, U.S. Grade A, fancy, super sweet [redacted]
Butter Buds Sprinkles	N/A	Butter Buds Sprinkles, all natural, butter flavored granules
Instant CLEARJEL	N/A	Instant CLEARJEL, instant modified food starch [redacted]
TOTAL	**100.00**	**Corn, Freeze Dried, Raw Material**

Couscous with Nuts (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Organic Reduced Fat Milk	51.15	Fresh, reduced fat (2%) milk, USDA Organic Grade A, with DHA Omega-3, pasteurized and homogenized[redacted]
Honey	12.49	Honey, pure, U.S. Grade A
Couscous	10.48	Dried couscous, original pasta[redacted]
Walnuts	8.64	Walnuts, chopped[redacted]
Buttery Spread	5.85	Refrigerated, buttery spread (non-dairy) with Omega-3[redacted]
Dried Cranberries	4.43	Dried cranberries, sweetened[redacted]
Pine Nuts	2.48	Pine nuts, whole[redacted]
Pistachios	2.29	Pistachios, shelled, whole[redacted]
Dried Blueberries	2.19	Dried blueberries, wild, sweetened[redacted]
TOTAL	**100.00**	**Couscous with Nuts, Raw Material**

Crab Bisque (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Seafood Stock	23.20	Shelf stable seafood cooking stock [redacted]
Clam Juice	18.21	Shelf stable clam juice [redacted]
Crab Meat (1)	8.78	Refrigerated, blue crab meat, all natural (Suggested: lump crab [redacted])
Crab Meat (2)	8.77	Refrigerated, blue crab meat, all natural (Suggested: lump crab [redacted])
Shrimp	8.73	Individually Quick Frozen (IQF) shrimp, peeled, deveined, tail-off, 40-50 count
Sherry Cooking Wine	6.53	Sherry cooking wine [redacted]
Diced Tomatoes	4.61	Canned tomatoes, diced, no salt added [redacted] **NOTES:** 1. Not more than 50 mg sodium per serving of diced tomatoes 2. % based on drained tomatoes
Heavy Cream	4.07	Fresh, heavy whipping cream, Grade A, ultra-pasteurized
Onion	3.38	Frozen white onions, diced
Tomato Paste	3.09	Canned tomato paste **NOTE:** Not more than 30 mg sodium per serving of tomato paste
Mushrooms	2.71	Canned mushrooms, pieces and stems, no salt added [redacted] **NOTE:** % based on weight of drained mushrooms
Carrots	2.38	Frozen carrots, crinkle cut
Celery	1.81	Fresh celery **NOTE:** % based on weight with ends trimmed
Garlic	1.25	Garlic, minced in water

Canola/Olive Oil Blend	0.95	Canola oil and extra virgin olive oil, OlivExtra Plus Omega-3 DHA [redacted]
Water (Slurry)	0.90	Water shall be from a potable source and free from contaminants
Corn Starch	0.40	Corn starch [redacted]
Tarragon	0.08	Dried tarragon leaves
Thyme	0.08	Dried thyme leaves
Cayenne Pepper	0.03	Cayenne/red pepper, ground [redacted]
Smoked Paprika	0.02	Smoked paprika, ground [redacted]
Bay Leaves	0.02	Bay leaves, whole, dried [redacted]
TOTAL	**100.00**	**Crab Bisque, Raw Material**

Creamed Spinach (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Spinach	49.40	Frozen chopped spinach
Whole Milk	27.70	Fresh whole milk, U.S. Grade A, pasteurized and homogenized
Shallots	6.30	Fresh shallots **NOTE:** % based on weight of shallots peeled and ends trimmed
Flour	5.80	Flour, all-purpose [redacted]
Unsalted Butter	4.70	Fresh unsalted butter, U.S. Grade AA, sweet cream
Parmesan Cheese	3.30	Parmesan cheese, shredded [redacted]
Cream Cheese	2.10	Cream Cheese [redacted]
Garlic	0.35	Garlic, minced in water
Kosher Salt	0.25	Kosher salt, coarse
Nutmeg	0.07	Nutmeg, ground
White Pepper	0.03	White pepper, ground
TOTAL	**100.00**	**Creamed Spinach, Freeze Dried, Raw Material**

Fish with Mango Salsa (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Barramundi Fish	54.70	Frozen Barramundi (Sea bass) fish [redacted]
Mango	20.07	Shelf stable mango chunks in light syrup [redacted] NOTE: % of mango is based on drained weight
Diced Tomatoes and Green Chilies	13.90	Canned, diced tomatoes and green chilies, no salt added, [redacted] NOTE: % based on drained weight
Lime Juice	7.04	Lime juice, natural strength from concentrate [redacted]
Extra Light Olive Oil	3.58	Olive oil, extra light tasting [redacted]
Garlic Powder	0.26	Garlic powder
Salt	0.23	Salt, pure sodium chloride, non-iodized
Smoked Paprika	0.12	Smoked paprika, ground [redacted]
Black Pepper	0.10	Black pepper, ground
TOTAL	**100.00**	**Fish with Mango Salsa, Raw Material**

Green Beans and Mushrooms (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Green Beans	70.21	Frozen green beans, cut, U.S. Grade A, fancy [redacted]
Diced Tomatoes	14.30	Canned tomatoes, diced, no salt added **NOTES:** 1. Not more than 50 mg sodium per serving of diced tomatoes 2. % based on tomatoes and juice [redacted]
Mushrooms	10.10	Canned mushrooms, pieces and stems, no salt added [redacted] **NOTE:** % based on weight of drained mushrooms
Onions	4.00	Frozen white onions, diced
Garlic Powder	1.00	Garlic powder
Butter Buds Sprinkles	0.22	Butter Buds Sprinkles, all natural, butter flavored granules
Kosher Salt	0.10	Kosher salt, coarse
Black Pepper	0.07	Black pepper, coarse/table grind
TOTAL	**100.00**	**Green Beans and Mushrooms, Freeze Dried, Raw Material**

Grits with Butter (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Water	37.85	Water shall be from a potable source and free from contaminants
Skim Milk	37.85	Fresh skim (nonfat) milk, U.S. Grade A, pasteurized and homogenized
Quick Grits	17.95	Quick cook grits, [redacted]
Unsalted Butter	6.05	Fresh unsalted butter, U.S. Grade AA, sweet cream
Kosher Salt	0.30	Kosher salt, coarse
TOTAL	**100.00**	**Grits with Butter, Freeze Dried, Raw Material**

Italian Vegetables (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Carrots, frozen	21.60	Frozen carrots, crinkle cut
Green Beans, frozen	21.60	Frozen green beans, cut, U.S. Grade A, fancy [redacted]
Cauliflower, frozen	19.94	Individually Quick Frozen (IQF) cauliflower florets
Yellow Squash, frozen	14.40	Frozen, sliced
Zucchini, frozen	14.40	Frozen, sliced
Unsalted Butter	3.50	Fresh unsalted butter, U.S. Grade AA, sweet cream
Garlic	2.00	Garlic, minced in water
Red Bell Pepper, frozen	2.00	Frozen red bell pepper, diced
Basil	0.20	Dried basil leaves [redacted]
Oregano	0.20	Dried oregano leaves [redacted] NOTE: Mediterranean oregano is acceptable
Kosher Salt	0.16	Kosher salt, coarse
TOTAL	**100.00**	**Italian Vegetables, Freeze Dried, Raw Material**

Macaroni and Cheese (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Water	38.43	Water shall be from a potable source and free from contaminants
Water (Instant Milk)	20.00	Water shall be from a potable source and free from contaminants
Water (Noodle Pick-up) †	16.11†	Water shall be from a potable source and free from contaminants †**NOTE:** This is NOT water added to the formulation but water absorbed by the noodles during cooking
Elbow Macaroni	9.76	Elbow macaroni [redacted] **NOTE:** % based on dry weight
Sharp Cheddar Cheese	9.61	Sharp cheddar cheese, finely shredded, aged Wisconsin [redacted]
Instant Milk	2.17	Instant milk, 100% real, nonfat [redacted] **NOTE:** The powdered, instant milk shall be obtained in cans
Unsalted Butter	2.09	Fresh unsalted butter, U.S. Grade AA, sweet cream
Corn Starch	1.52	Corn starch, native, PRIMA 600 [redacted]
Kosher Salt	0.19	Kosher salt, coarse
White Pepper	0.03	White pepper, ground
Onion Powder	0.03	Onion powder
Garlic powder	0.03	Garlic powder
Turmeric	0.01	Turmeric, ground
Nutritional Yeast	0.01	Nutritional yeast, inactive [redacted]
TOTAL	**100.00**	**Macaroni and Cheese, Freeze Dried, Raw Material**

Mashed Potatoes (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Water	53.00	Water shall be from a potable source and free from contaminants
Whole Milk	26.50	Fresh whole milk, U.S. Grade A, pasteurized and homogenized
Mashed Potatoes	13.30	Instant mashed potatoes, original [redacted]
Unsalted Butter	6.95	Fresh unsalted butter, U.S. Grade AA, sweet cream
Kosher Salt	0.25	Kosher salt, coarse
TOTAL	**100.00**	**Mashed Potatoes, Freeze Dried, Raw Material**

Mexican Scrambled Eggs (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Whole Eggs	39.76	Fresh, Grade A or better, shell eggs **NOTES:** 1. % of fresh eggs is based on whole eggs after they have been cracked and shelled 2. If available, frozen, pasteurized, USDA inspected, whole eggs may be used.
2% Milk	12.97	Fresh reduced fat milk, 2%, U.S. Grade A, pasteurized and homogenized
Diced Tomatoes	12.73	Canned tomatoes, diced, no salt added [redacted] **NOTES:** 1. Not more than 50 mg sodium per serving of diced tomatoes 2. % based on tomatoes and juice
Medium Cheddar Cheese	12.44	Medium Cheddar cheese [redacted]
Onions	6.67	Frozen white onions, diced
Egg Whites	5.59	Refrigerated, liquid, 100% egg whites, pasteurized and USDA inspected
Green Chiles	3.63	Canned green chiles, diced, mild, fire-roasted [redacted] **NOTE:** % based on weight of undrained chiles
Unsalted Butter	2.95	Fresh unsalted butter, U.S. Grade AA, sweet cream
Cilantro	1.82	Fresh cilantro **NOTE:** % based on weight of leaves and small leaf stems
Instant Milk	1.44	Instant milk, 100% real, nonfat [redacted] **NOTE:** The powdered, instant milk shall be obtained in cans.

No-Stick Cooking Spray	N/A	No-Stick cooking spray, Original [redacted] **NOTE:** Used only to spray baking pans
TOTAL	**100.00**	**Mexican Scrambled Eggs, Freeze Dried, Raw Material**

Mixed Vegetables (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Mixed Vegetables	85.12	Frozen mixed vegetables [redacted]
Water	10.31	Water shall be from a potable source and free from contaminants.
Unsalted Butter	2.20	Fresh unsalted butter, sweet cream, U.S. Grade AA
Water (Slurry)	1.33	Water shall be from a potable source and free from contaminants.
Garlic and Herb Seasoning	0.59	Garlic and herb, salt-free seasoning, Perfect Pinch [redacted]
Filling Aid Starch	0.44	Filling aid starch, NATIONAL 150 [redacted]
Black Pepper	0.01	Black pepper, coarse grind
TOTAL	**100.00**	**Mixed Vegetables, Raw Material**

Noodles and Chicken (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Chicken Broth	36.52	Canned chicken broth, low sodium, all natural, organic [redacted]
Diced White Chicken	22.50	Frozen, ½" diced, white chicken, fully cooked [redacted]
Ditalini Pasta	8.80	Ditalini pasta **NOTE:** % based on dry weight
Water (Pasta Pick-up)†	11.00†	Water shall be from a potable source and free from contaminants †**NOTE:** This is NOT water added to the formulation but water absorbed by the pasta during cooking
Water	7.50	Water shall be from a potable source and free from contaminants
Celery	3.95	Fresh celery **NOTE:** % based on weight with ends trimmed
Carrots	3.95	Frozen carrots, crinkle cut
Onion	3.95	Frozen white onions, diced
Modified Food Starch, PRIMA 600	1.00	Modified food starch[redacted]
Canola Oil	0.40	Canola oil, pure
Garlic	0.20	Garlic, minced in water
Kosher Salt	0.17	Kosher salt, coarse
Black Pepper	0.05	Black pepper, coarse/table grind
Thyme	0.01	Dried thyme leaves
TOTAL	**100.00**	**Noodles and Chicken, Freeze Dried, Raw Material**

Pasta with Shrimp (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Tri-Color Rotini	39.55	Garden rotini tricolore, enriched tomato and spinach macaroni, hard amber durum semolina [redacted] **NOTE:** % based on cooked rotini
Diced Tomatoes	36.73	Canned tomatoes, diced, no salt added [redacted] **NOTES:** 1. Not more than 50 mg sodium per serving of diced tomatoes 2. % based on tomatoes and juice
Onions	10.00	Frozen white onions, diced
Heavy Cream	7.00	Fresh, heavy whipping cream, Grade A, ultra pasteurized
Unsalted Butter	1.60	Fresh unsalted butter, U.S. Grade AA, sweet cream
Sun Dried Tomatoes	1.33	Sun dried tomatoes, julienne-cut [redacted]
Parmigiano Reggiano	0.97	Parmigiano Reggiano, imported from Italy NOTE: This material shall be procured in wedge/block-form and shredded at the time of processing. [redacted]
Garlic	0.80	Garlic, minced in water
Sugar	0.75	Sugar, pure cane, granulated
Water	0.40	Water shall be from a potable source and free from contaminants
Kosher Salt	0.35	Kosher salt, coarse
Corn Starch	0.20	Corn starch
Basil	0.15	Dried basil leaves [redacted]
Ground Black Pepper	0.09	Black pepper, ground
Oregano	0.08	Dried oregano leaves [redacted]
Freeze Dried Shrimp	N/A	Freeze dried, cooked, Gulf shrimp [redacted]

		NOTE: The freeze-dried shrimp is a packaging component
TOTAL	**100.00**	**Pasta for Pasta with Shrimp, Freeze Dried, Raw Material**

Potatoes au Gratin (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Water	40.13	Water shall be from a potable source and free from contaminants
Water (Instant Milk)	10.00	Water shall be from a potable source and free from contaminants
Frozen Lattice-Cut Potatoes	33.96	Frozen lattice-cut potatoes [redacted]
Sharp Cheddar Cheese	4.66	Sharp Cheddar cheese, shredded [redacted]
Instant Milk	4.00	Instant milk, 100% real, nonfat [redacted] NOTE: The powdered, instant milk shall be obtained in cans.
Frozen Vegetable Seasoning Blend	3.49	Frozen vegetable seasoning blend (diced onions, celery, red peppers, green peppers and parsley flakes) [redacted]
Unsalted Butter	1.44	Fresh unsalted butter, U.S. Grade AA, sweet cream
PRIMA 600 STARCH	1.21	PRIMA 600 starch [redacted]
Parmesan Cheese	0.70	Parmesan cheese, shredded [redacted]
Kosher Salt	0.19	Kosher salt, coarse
Garlic	0.14	Garlic, minced in water
Black Pepper	0.05	Black pepper, coarse/table grind
Ground Cayenne Red Pepper	0.02	Ground cayenne red pepper [redacted]
Turmeric	0.01	Turmeric, ground
TOTAL	**100.00**	**Potatoes au Gratin, Freeze Dried, Raw Material**

Rice Pilaf (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Vegetable Broth	45.00	Canned vegetable broth, low sodium, all natural, organic [redacted]
White Rice	15.40	White rice, long grain, enriched and parboiled [redacted]
Orzo	12.86	Orzo, 100% semolina pasta [redacted]
Water	11.50	Water shall be from a potable source and free from contaminants
Onions	6.54	Frozen white onions, diced
Unsalted Butter	5.00	Fresh unsalted butter, sweet cream, U.S. Grade AA
Celery	1.59	Fresh celery **NOTE:** % based on weight with ends trimmed
Carrots	1.00	Frozen carrots, crinkle cut
Garlic	1.00	Garlic, minced in water
Kosher Salt	0.08	Kosher salt, coarse
Parsley	0.03	Dried parsley flakes
TOTAL	**100.00**	**Rice Pilaf, Freeze Dried, Raw Material**

Salmon Croquettes (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Salmon	42.68	Canned, pink salmon, skinless, boneless [redacted] **NOTES:** 1. Salmon shall be drained but the liquid shall be reserved for the formulation.+ 2. Each 142 g can has approximately 100 g of salmon.
Red Bell Pepper	9.83	Fresh red bell pepper **NOTE:** % based on weight of trimmed, cored and seeded peppers
Panko Bread Crumbs	9.39	Panko Japanese-style bread crumbs, regular, plain
Mayonnaise	8.82	Mayonnaise, Real Mayo [redacted]
Sour Cream	7.40	Fresh sour cream, U.S. Grade A [redacted]
Whole Eggs	7.11	Fresh, Grade A or better, shell eggs **NOTES:** 1. % of fresh eggs is based on whole eggs after they have been cracked and shelled 2. If available, frozen, pasteurized, USDA inspected, whole eggs may be used.
Green Onions	5.82	Fresh green onions **NOTE:** % based on trimmed green onions
Liquid from Canned Salmon+	2.84	Reserved liquid from drained canned salmon and reserved only for immediate use+
Celery	2.67	Fresh celery **NOTE:** % based on weight with ends trimmed
Lime Juice	1.42	Lime juice, natural strength from concentrate [redacted]
Extra Light Olive Oil	1.42	Olive oil, extra light tasting [redacted]
Garlic	0.60	Garlic, minced in water

No-Stick Cooking Spray	N/A	No-Stick cooking spray, Original [redacted] **NOTE:** Used to spray baking trays and tops of croquettes
TOTAL	**100.00**	**Salmon Croquettes, Raw Material**

Sausage Pattie (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Sausage Pattie	100.00	Refrigerated turkey sausage pattie, fully cooked [redacted] **NOTE:** Product may also be sold frozen.
TOTAL	**100.00**	**Sausage Pattie, Freeze Dried, Raw Material**

Scrambled Eggs (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Whole Eggs	55.05	Fresh, Grade A or better, shell eggs **NOTES:** 1. % of fresh eggs is based on whole eggs after they have been cracked and shelled 2. If available, frozen, pasteurized, USDA inspected, whole eggs may be used.
2% Milk	18.00	Fresh reduced fat milk, 2%, U.S. Grade A, pasteurized and homogenized
Medium Cheddar Cheese	12.95	Medium Cheddar cheese [redacted]
Egg Whites	7.75	Refrigerated, 100% egg whites, pasteurized and USDA inspected[redacted]
Unsalted Butter	4.10	Fresh unsalted butter, U.S. Grade AA, sweet cream
Instant Milk	2.00	Instant milk, 100% real, nonfat[redacted] NOTE: The powdered, instant milk shall be obtained in cans.
Black Pepper	0.15	Black pepper, ground
No-Stick Cooking Spray	N/A	No-Stick cooking spray, Original, [redacted] **NOTE:** Used only to spray baking pans
TOTAL	**100.00**	**Scrambled Eggs, Freeze Dried, Raw Material**

Seasoned Scrambled Eggs (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Whole Eggs	52.36	Fresh, Grade A or better, shell eggs **NOTES:** 1. % of fresh eggs is based on whole eggs after they have been cracked and shelled 2. If available, frozen, pasteurized, USDA inspected, whole eggs may be used.
2% Milk	17.03	Fresh reduced fat milk, 2%, U.S. Grade A, pasteurized and homogenized
Medium Cheddar Cheese	16.37	Medium Cheddar cheese, Shredded [redacted]
Egg Whites	7.28	Refrigerated, 100% egg whites, pasteurized and USDA inspected[redacted]
Unsalted Butter	3.88	Fresh unsalted butter, U.S. Grade AA, sweet cream
Instant Milk	1.90	Instant milk, 100% real, nonfat[redacted] NOTE: The powdered, instant milk shall be obtained in cans.
Parsley	0.46	Dried parsley flakes
Garlic Powder	0.43	Garlic powder
Black Pepper	0.19	Black pepper, ground
Rosemary	0.05	Dried rosemary leaves
Thyme	0.05	Dried thyme leaves
No-Stick Cooking Spray	N/A	No-Stick cooking spray, Original[redacted] **NOTE:** Used only to spray baking pans
TOTAL	**100.00**	**Seasoned Scrambled Eggs, Freeze Dried, Raw Material**

Shrimp Cocktail (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Cocktail Sauce	46.82	Original cocktail sauce [redacted] **NOTE:** If not available, use Freeze dried cocktail sauce (20% more horseradish) [redacted]
Water	39.98	Water shall be from a potable source and free from contaminants
Horseradish Sauce	13.20	Extra hot horseradish sauce [redacted]
No-Stick Cooking Spray	N/A	No-Stick cooking spray, Origina [redacted]
Freeze Dried Shrimp	N/A	Freeze dried, cooked, Gulf shrimp [redacted] **NOTE:** The freeze-dried shrimp is a packaging component
TOTAL	**100.0**	**Shrimp Cocktail, Freeze Dried, Raw Material**

Shrimp Fried Rice (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Water	45.04	Water shall be from a potable source and free from contaminants
Peas and Diced Carrots	14.00	Individually Quick Frozen (IQF) peas and diced carrots
White Rice	14.00	White rice, long grain, enriched and parboiled [redacted]
Chicken Broth	12.00	Canned chicken broth, 100% fat free, 33% less sodium [redacted]
Teriyaki Sauce	4.58	Teriyaki marinade and sauce, less sodium [redacted]
Chopped Ginger	3.50	Ginger, chopped in water
Water Chestnuts	3.34	Canned water chestnuts, sliced [redacted]
Garlic	2.00	Garlic, minced in water
Sesame Oil	0.95	Sesame oil, pure 100%
Light Brown Sugar	0.40	Light brown sugar [redacted]
Chives	0.10	Freeze dried chives [redacted]
Browning and Seasoning Sauce	0.09	Browning and seasoning sauce [redacted]
Freeze Dried Shrimp	N/A	Freeze dried, cooked, Gulf shrimp, [redacted] NOTE: The freeze-dried shrimp is a packaging component
TOTAL	**100.00**	**Fried Rice for Shrimp Fried, Freeze Dried, Raw Material**
Spicy Green Beans (Rehydratable)		

INGREDIENT	%	MATERIAL DESCRIPTION
Green Beans	47.00	Frozen green beans, cut, U.S. Grade A, fancy [redacted]
Lite Coconut Milk	39.16	Canned coconut milk, lite [redacted]
Water	6.20	Water shall be from a potable source and free from contaminants
Red Curry Paste	4.60	Red curry paste [redacted]
Corn Starch	1.30	Corn starch
Light Brown Sugar	1.10	Light brown sugar
Fish Sauce	0.35	Fish sauce [redacted]
Lime Juice	0.25	Lime juice, natural strength from concentrate [redacted]
Ground Cayenne Red Pepper	0.04	Ground cayenne red pepper [redacted]
TOTAL	**100.00**	**Spicy Green Beans, Freeze Dried, Raw Material**

Sweet and Savory Kale (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Kale	41.40	Frozen kale, chopped
Vegetable broth	23.65	Shelf stable vegetable broth, low sodium, all natural [redacted]
Onions	9.88	Frozen onions, diced
Dried Cranberries	6.73	Dried cranberries, original [redacted]
Sugar	5.92	Sugar, pure cane, granulated
Dijon-Style Mustard	4.29	Dijon-style mustard [redacted]
Apple Cider Vinegar	3.45	Apple cider vinegar
Garlic	2.57	Garlic, minced in water
Olive Oil	1.55	Olive oil, extra virgin
Almonds	0.56	Almonds, slivers, pre-blanched
TOTAL	**100.00**	**Sweet and Savory Kale, Raw Material**

Sweet and Sour Chicken (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Diced White Chicken	37.20	Frozen, ½" diced, white chicken, fully cooked [redacted]
Water	17.80	Water shall be from a potable source and free from contaminants
Pineapple Juice	13.60	Pineapple juice, 100% juice
Onion	11.00	Frozen white onions, diced
Pineapple	6.50	Canned pineapple tidbits in its own juice [redacted]
Sugar	3.60	Sugar, pure cane, granulated
Red Wine Vinegar	3.00	Red wine vinegar with 5% acidity
Lemon Juice	2.60	Lemon juice, natural strength from concentrate [redacted]
Diced Red Bell Pepper	2.60	Frozen red bell pepper, diced
Modified Food Starch, PRIMA 600	1.30	Modified food starch, PRIMA 600 [redacted]
Extra Virgin Olive Oil	0.65	Extra virgin olive oil
Chopped Ginger	0.13	Chopped ginger in water [redacted]
Garlic Powder	0.02	Garlic powder
TOTAL	**100.00**	**Sweet and Sour Chicken, Freeze Dried, Raw Material**

Teriyaki Chicken (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Diced White Chicken	50.25	Frozen, ½" diced, white chicken, fully cooked [redacted]
Water	20.27	Water shall be from a potable source and free from contaminants
Teriyaki Sauce	7.75	Teriyaki marinade and sauce, less sodium [redacted]
Diced Red Bell Pepper	6.10	Frozen red bell pepper, diced
Onion	5.80	Frozen white onions, diced
Chicken Broth	4.50	Canned chicken broth, low sodium, all natural, organic [redacted]
Chopped Ginger	2.33	Chopped ginger in water [redacted]
Garlic	2.05	Garlic, minced in water
Modified Food Starch, PRIMA 600	0.50	Modified food starch, PRIMA 600 [redacted]
Browning and Seasoning Sauce	0.45	Browning and seasoning sauce [redacted]
TOTAL	**100.00**	**Teriyaki Chicken, Freeze Dried, Raw Material**

Teriyaki Vegetables (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Stir Fry Vegetables	74.54	Frozen vegetables for stir fry [redacted]
Teriyaki Sauce	13.84	Teriyaki marinade and sauce, less sodium [redacted]
Chicken Broth	7.38	Canned chicken broth, [redacted] 100% fat free, 33% less sodium [redacted]
Ginger	2.58	Ginger, chopped in water
Garlic	1.29	Garlic, minced in water
Corn Starch	0.37	Corn starch
TOTAL	**100.00**	**Teriyaki Vegetables, Freeze Dried, Raw Material**

Tomatoes and Artichokes (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Diced Tomatoes	53.45	Canned tomatoes, diced, no salt added [redacted] **NOTES:** 1. Not more than 50 mg sodium per serving of diced tomatoes 2. % based on tomatoes and juice
Artichokes	20.10	Frozen artichoke quarters
Mushrooms	10.85	Canned mushrooms, no salt added, pieces and stems
Green Onions	6.00	Fresh green onions
Water	4.00	Water shall be from a potable source and free from contaminants.
Ripe Olives	3.00	Canned ripe (black) olives, sliced
Garlic	1.00	Refrigerated minced garlic in water
Starch	0.50	Corn starch
Olive oil	0.40	Olive oil, extra virgin
Sugar	0.30	Sugar, pure cane, granulated
Black pepper	0.20	Black pepper, ground
Italian Seasoning	0.20	Italian seasoning, dried [redacted]
TOTAL	**100.00**	**Tomatoes and Artichokes, Freeze Dried, Raw Material**

Turkey Tetrazzini (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Water	44.31	Water shall be from a potable source and free from contaminants
Ground Turkey Breast	14.35	Fresh ground turkey breast, extra lean, 99% fat free, all natural with no added ingredients
Water (Noodle Pick-up) †	10.73†	Water shall be from a potable source and free from contaminants †**NOTE:** This is NOT water added to the formulation but water absorbed by the noodles during cooking
Vegetable Seasoning Blend	8.05	Frozen, vegetable seasoning blend [redacted]
Thin Spaghetti (uncooked)	7.15	Thin spaghetti [redacted] **NOTE:** % based on dry weight
Asparagus Spears	4.10	Frozen asparagus spears, [redacted]
Fresh Sliced Mushrooms	4.10	Fresh sliced mushrooms
Modified Food Starch, PRIMA 600	2.00	Modified food starch, PRIMA 600 [redacted]
Parmesan Cheese	1.47	Parmesan cheese, shredded [redacted]
Unsalted Butter	1.45	Fresh unsalted butter, U.S. Grade AA, sweet cream
Instant Milk	0.87	Instant milk, 100% real, nonfat [redacted] **NOTE:** The powdered, instant milk shall be obtained in cans
Bread Crumbs	0.50	Bread crumbs, plain [redacted]
Roasted Vegetable Flavor	0.30	Roasted vegetable flavor, natural [redacted]
Chicken Broth Flavor	0.30	Chicken broth flavor, natural [redacted]
Sugar	0.20	Sugar, pure cane, granulated

Kosher Salt	0.04	Kosher salt, coarse
Black Pepper	0.04	Black pepper, coarse/table grind
Thyme	0.02	Dried thyme leaves
Tarragon	0.02	Dried tarragon leaves
TOTAL	**100.00**	**Turkey Tetrazzini, Freeze Dried, Raw Material**

Vegetable Quiche (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Whole Eggs	26.00	Fresh, Grade A or better, shell eggs **NOTES:** 1. % of fresh eggs is based on whole eggs after they have been cracked and shelled 2. If available, frozen, pasteurized, USDA inspected, whole eggs may be used.
Lowfat Evaporated Milk	22.68	Canned lowfat evaporated milk, 2%, vitamins A & D added
Zucchini	19.31	Fresh zucchini **NOTE:** % based on weight of zucchini with ends removed
Cream Cheese	13.50	Cream cheese, original, [redacted]
Fresh Sliced Mushrooms	8.30	Fresh sliced mushrooms
Swiss Cheese	5.50	Swiss cheese, fancy shredded
Green Onions	2.80	Fresh green onions **NOTE:** % based on weight of trimmed green onions
Corn Flake Crumbs	0.95	Corn flake crumbs [redacted]
Unsalted Butter	0.95	Fresh unsalted butter, U.S. Grade AA, sweet cream
Black Pepper	0.01	Black pepper, coarse/table grind
No-Stick Cooking Spray	N/A	No-Stick cooking spray[redacted] **NOTE:** Used only to spray baking pans
TOTAL	**100.00**	**Vegetable Quiche, Freeze Dried, Raw Material**

Vegetarian Chili (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Diced Tomatoes	57.70	Canned tomatoes, diced, no salt added [redacted] **NOTES:** 1. Not more than 50 mg sodium per serving of diced tomatoes 2. % based on tomatoes and juice
Veggie Crumbles	26.16	Frozen veggie crumbles [redacted]
Green Bell Pepper	9.08	Frozen green bell peppers, diced
Onions	4.87	Frozen white onions, diced
Chili Powder	1.10	Chili powder [redacted]
Cilantro	0.73	Fresh cilantro **NOTE:** % based on weight of leaves and small leaf stems
Cumin	0.31	Cumin, ground [redacted]
Black Pepper	0.03	Black pepper, coarse/table grind
Ground Cayenne Red Pepper	0.02	Ground cayenne red pepper [redacted]
TOTAL	**100.00**	**Vegetarian Chili, Freeze Dried, Raw Material**

Vegetarian Scramble (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Egg Product	36.17	Refrigerated real egg product [redacted]
Onion and Bell Pepper Blend, frozen strips	24.00	Frozen onion and bell pepper strips [redacted]
Sweet Potato, frozen, cubed	11.63	Frozen sweet potato, cubed [redacted]
Vegetarian Breakfast Sausage	10.01	Frozen, Beyond Meat Beyond Breakfast Sausage Spicy Plant-Based Patties
Mushrooms, Fresh, Sliced	8.25	Fresh sliced mushrooms
Kale, Fresh	4.71	Fresh Kale Greens, bagged trimmed greens if possible **NOTE:** % based on weight with stalk trimmed if purchased un-bagged, [redacted]
Olive Oil, Pure, Light	3.00	Olive oil, light
Salt-Free Seasoning (1)	0.57	Salt-free seasoning, [redacted]
Salt-Free Seasoning (2)	0.40	Salt-free seasoning, Original, [redacted]
Onion Powder (1)	0.35	Onion Powder
Garlic Powder (1)	0.33	Garlic Powder
Onion Powder (2)	0.18	Onion Powder
Garlic Powder (2)	0.17	Garlic Powder
Black Pepper, ground	0.14	Black Pepper, ground
Creole Seasoning	0.07	Creole Seasoning [redacted]

No-Stick Cooking Spray	N/A	No-Stick cooking spray, [redacted] [redacted] NOTE: Used only to spray baking pans
TOTAL	**100.00**	**Vegetarian Scramble, Freeze Dried, Raw Material**

Wild White Rice (Rehydratable)		
INGREDIENT	**%**	**MATERIAL DESCRIPTION**
Water (Rice Pickup)	33.12	Water shall be from a potable source and free from contaminants. NOTE: This is water picked up by rice during cooking. Add 6 parts water to 1 part of combined rice for cooking.
Water	20.10	Water shall be from a potable source and free from contaminants.
Brown Rice	15.00	Rice, brown, whole grain, dry. [redacted]
Broccoli	8.26	Broccoli florets, frozen [redacted]
Edamame	6.27	Frozen edamame, mukikame, shelled soybeans. [redacted]
Wild Rice, Scarified	5.00	Wild Rice, scarified, dry. [redacted] NOTE: Scarification is required for rehydration and product quality.
Match Stick Carrots	4.67	Fresh, match stick cut, carrots
Dried Cranberries	1.82	Dried cranberries[redacted] [redacted]
Ginger, squeeze	1.35	Squeeze ginger [redacted]
Roasted Vegetable Flavor	1.10	Roasted vegetable flavor, natural [redacted]
Almonds	1.00	Almonds, slivers, pre-blanched
Sesame Seeds	0.70	Sesame seeds
Rice Vinegar	0.50	Rice vinegar[redacted]
Starch, Prima 600	0.45	PRIMA 600 starch[redacted]

Canola Oil	0.25	Canola oil with Omega-3 DHA [redacted]
Sesame Oil	0.20	Sesame oil, pure 100%, toasted
Sugar	0.15	Sugar, pure cane, granulated
Crushed Red Pepper	0.05	Crushed red pepper. [redacted]
Chives	0.01	Freeze dried chives, chopped. [redacted]
TOTAL	**100.00**	**Wild Rice Salad, Freeze Dried, Raw Material**