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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 (Re	hydrata	ble)
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 (Re	hydrata	ble)
INGREDIENT	%	MATERIAL DESCRIPTION
Beef Pattie	100.00	Individually Quick Frozen (IQF) lean beef burger, 3 oz., fully cooked
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	Cooked Seasoned Ground Beef Crumbles
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 NOTE: % based on dry weight
Sour Cream	8.00	Fresh sour cream, U.S. Grade A
Mushrooms	6.50	Canned mushrooms, pieces and stems, no salt added NOTE: % based on weight of drained mushrooms
Modified Food Starch,	2.50	Modified food starch
PRIMA 600	2.30	
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
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.
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
Apple Cider Vinegar	1.83	Apple cider vinegar, 5% acidity
Garlic	0.56	Garlic, minced in water
Caraway Seeds	0.14	Caraway seeds, dried
Black Pepper	0.04	Black pepper, ground
Allspice	0.02	Allspice, ground
TOTAL	100.00	Braised Red Cabbage, Raw Material

Broccoli au Gratin (Rehydratable)		
INGREDIENT	%	MATERIAL DESCRIPTION
Broccoli	62.93	Individually Quick Frozen (IQF) broccoli florets
Water	17.00	Water shall be from a potable source and free from contaminants
Sharp Cheddar Cheese	11.28	Sharp cheddar cheese, shredded
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 NOTE: The powdered, instant milk shall be obtained in cans.
Modified Food Starch, PRIMA 600	0.67	Modified food starch
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
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, 6% acidity
Canola Oil with DHA	1.91	Canola oil plus Omega-3 DHA
Black Pepper	0.46	Black pepper, ground
Garlic Powder	0.46	Garlic powder
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
Sea Salt Chicken Broth	5.02	Shelf stable organic chicken broth, free range, low sodium, fat free
Diced Tomatoes	16.12	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
Onion	9.63	Frozen white onions, diced
Yogurt	8.06	Fresh yogurt, plain, nonfat
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
Cilantro	0.71	Frozen cilantro cubes, chopped
Chopped Ginger	0.62	Ginger, chopped in water
Garlic	0.33	Garlic, minced in water
Lemon Juice	0.33	Lemon juice, natural strength from concentrate
Kosher Salt	0.24	Kosher salt, coarse
Cumin	0.04	Cumin, ground
Ground Cayenne Red Pepper	0.01	Ground cayenne red pepper

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
Sharp Cheddar Cheese	4.25	Sharp Cheddar cheese
Corn Starch	0.50	Corn starch, 100% pure
Worcestershire Sauce	0.30	Worcestershire sauce, the Original
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
Pineapple	22.59	Canned pineapple tidbits in its own juice NOTE: % based on drained weight
Dressing	14.75	Dressing, Light
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
Butter Buds Sprinkles	N/A	Butter Buds Sprinkles, all natural, butter flavored granules
Instant CLEARJEL	N/A	Instant CLEARJEL, instant modified food starch
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
Honey	12.49	Honey, pure, U.S. Grade A
Couscous	10.48	Dried couscous, original pasta
Walnuts	8.64	Walnuts, chopped
Buttery Spread	5.85	Refrigerated, buttery spread (non-dairy) with Omega-3
Dried Cranberries	4.43	Dried cranberries, sweetened
Pine Nuts	2.48	Pine nuts, whole
Pistachios	2.29	Pistachios, shelled, whole
Dried Blueberries	2.19	Dried blueberries, wild, sweetened
TOTAL	100.00	Couscous with Nuts, Raw Material

Crab Bisque (R	Rehydrata	able)
INGREDIENT	%	MATERIAL DESCRIPTION
Seafood Stock	23.20	Shelf stable seafood cooking stock
Clam Juice	18.21	Shelf stable clam juice
Crab Meat (1)	8.78	Refrigerated, blue crab meat, all natural (Suggested: lump crab
Crab Meat (2)	8.77	Refrigerated, blue crab meat, all natural (Suggested: lump crab
Shrimp	8.73	Individually Quick Frozen (IQF) shrimp, peeled, deveined, tail-off, 40-50 count
Sherry Cooking Wine	6.53	Sherry cooking wine
Diced Tomatoes	4.61	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	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
Water (Slurry)	0.90	Water shall be from a potable source and free from contaminants
Corn Starch	0.40	Corn starch
Tarragon	0.08	Dried tarragon leaves
Thyme	0.08	Dried thyme leaves
Cayenne Pepper	0.03	Cayenne/red pepper, ground
Smoked Paprika	0.02	Smoked paprika, ground
Bay Leaves	0.02	Bay leaves, whole, dried
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
Unsalted Butter	4.70	Fresh unsalted butter, U.S. Grade AA, sweet cream
Parmesan Cheese	3.30	Parmesan cheese, shredded
Cream Cheese	2.10	Cream Cheese
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
Mango	20.07	NOTE: % of mango is based on drained weight
Diced Tomatoes and Green Chilies	13.90	Canned, diced tomatoes and green chilies, no salt added, NOTE: % based on drained weight
Lime Juice	7.04	Lime juice, natural strength from concentrate
Extra Light Olive Oil	3.58	Olive oil, extra light tasting
Garlic Powder	0.26	Garlic powder
Salt	0.23	Salt, pure sodium chloride, non-iodized
Smoked Paprika	0.12	Smoked paprika, ground
Black Pepper	0.10	Black pepper, ground
TOTAL	100.00	Fish with Mango Salsa, Raw Material

Green Beans and Mushrooms (Rehydratable)		
INGREDIENT	0/0	MATERIAL DESCRIPTION
Green Beans	70.21	Frozen green beans, cut, U.S. Grade A, fancy
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
Mushrooms	10.10	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	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,	
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 (R	Rehydratab	ole)
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
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
Oregano	0.20	Dried oregano leaves NOTE: Mediterranean oregano is acceptable
Kosher Salt	0.16	Kosher salt, coarse
TOTAL	100.00	Italian Vegetables, Freeze Dried, Raw Material

Macaroni and Cheese	(Rehyd	ratable)
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
		NOTE: % based on dry weight
Sharp Cheddar Cheese	9.61	Sharp cheddar cheese, finely shredded, aged Wisconsin
Instant Milk	2.17	Instant milk, 100% real, nonfat
		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
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
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
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

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
		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
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
		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
		NOTE: The powdered, instant milk shall be obtained in cans.

No-Stick Cooking Spray	N/A	No-Stick cooking spray, Original 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	
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	
Filling Aid Starch	0.44	Filling aid starch, NATIONAL 150	
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		
Diced White Chicken	22.50	Frozen, ½" diced, white chicken, fully cooked		
Ditalini Pasta	8.80	Ditalini pasta NOTE: % based on dry weight		
Water (Pasta Pick-up) [†]	11.00 [†]	NOTE: % based on dry weight 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		
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	
		NOTE: % based on cooked rotini	
Diced Tomatoes	36.73	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	
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	
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.	
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	
Ground Black Pepper	0.09	Black pepper, ground	
Oregano	0.08	Dried oregano leaves	
Freeze Dried Shrimp	N/A	Freeze dried, cooked, Gulf shrimp	

		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	
Sharp Cheddar Cheese	4.66	Sharp Cheddar cheese, shredded	
Instant Milk	4.00	Instant milk, 100% real, nonfat 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)	
Unsalted Butter	1.44	Fresh unsalted butter, U.S. Grade AA, sweet cream	
PRIMA 600 STARCH	1.21	PRIMA 600 starch	
Parmesan Cheese	0.70	Parmesan cheese, shredded	
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	
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
White Rice	15.40	White rice, long grain, enriched and parboiled
Orzo	12.86	Orzo, 100% semolina pasta
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 Croqu	ettes (R	ehydratable)
INGREDIENT	%	MATERIAL DESCRIPTION
Salmon	42.68	Canned, pink salmon, skinless, boneless 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
Sour Cream	7.40	Fresh sour cream, U.S. Grade A
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
Extra Light Olive Oil	1.42	Olive oil, extra light tasting
Garlic	0.60	Garlic, minced in water

No-Stick	N/A	No-Stick cooking spray, Original
Cooking Spray		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 NOTE: Product may also be sold frozen.	
TOTAL	100.00	Sausage Pattie, Freeze Dried, Raw Material	

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
Egg Whites	7.75	Refrigerated, 100% egg whites, pasteurized and USDA inspected
Unsalted Butter	4.10	Fresh unsalted butter, U.S. Grade AA, sweet cream
Instant Milk	2.00	Instant milk, 100% real, nonfat
		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,
		NOTE: Used only to spray baking pans
TOTAL	100.00	Scrambled Eggs, Freeze Dried, Raw Material

Seasoned Scrambled	Eggs (l	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
Egg Whites	7.28	Refrigerated, 100% egg whites, pasteurized and USDA
		inspected
Unsalted Butter	3.88	Fresh unsalted butter, U.S. Grade AA, sweet cream
Instant Milk	1.90	Instant milk, 100% real, nonfat
		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
		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 NOTE: If not available, use Freeze dried cocktail sauce (20% more horseradish)
Water	39.98	Water shall be from a potable source and free from contaminants
Horseradish Sauce	13.20	Extra hot horseradish sauce
No-Stick Cooking Spray	N/A	No-Stick cooking spray, Origina
Freeze Dried Shrimp	N/A	Freeze dried, cooked, Gulf shrimp 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	
Chicken Broth	12.00	Canned chicken broth, 100% fat free, 33% less sodium	
Teriyaki Sauce	4.58	Teriyaki marinade and sauce, less sodium	
Chopped Ginger	3.50	Ginger, chopped in water	
Water Chestnuts	3.34	Canned water chestnuts, sliced	
Garlic	2.00	Garlic, minced in water	
Sesame Oil	0.95	Sesame oil, pure 100%	
Light Brown Sugar	0.40	Light brown sugar	
Chives	0.10	Freeze dried chives	
Browning and Seasoning Sauce	0.09	Browning and seasoning sauce	
Freeze Dried Shrimp	N/A	Freeze dried, cooked, Gulf shrimp,	
		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
Lite Coconut Milk	39.16	Canned coconut milk, lite
Water	6.20	Water shall be from a potable source and free from contaminants
Red Curry Paste	4.60	Red curry paste
Corn Starch	1.30	Corn starch
Light Brown Sugar	1.10	Light brown sugar
Fish Sauce	0.35	Fish sauce
Lime Juice	0.25	Lime juice, natural strength from concentrate
Ground Cayenne Red Pepper	0.04	Ground cayenne red pepper
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
Onions	9.88	Frozen onions, diced
Dried Cranberries	6.73	Dried cranberries, original
Sugar	5.92	Sugar, pure cane, granulated
Dijon-Style Mustard	4.29	Dijon-style mustard
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	
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	
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	
Diced Red Bell Pepper	2.60	Frozen red bell pepper, diced	
Modified Food Starch, PRIMA 600	1.30	Modified food starch, PRIMA 600	
Extra Virgin Olive Oil	0.65	Extra virgin olive oil	
Chopped Ginger	0.13	Chopped ginger in water	
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
Water	20.27	Water shall be from a potable source and free from contaminants
Teriyaki Sauce	7.75	Teriyaki marinade and sauce, less sodium
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
Chopped Ginger	2.33	Chopped ginger in water
Garlic	2.05	Garlic, minced in water
Modified Food Starch, PRIMA 600	0.50	Modified food starch, PRIMA 600
Browning and Seasoning Sauce	0.45	Browning and seasoning sauce
TOTAL	100.00	Teriyaki Chicken, Freeze Dried, Raw Material

Teriyaki Vegetables (Rehydratable)			
INGREDIENT	0/0	MATERIAL DESCRIPTION	
Stir Fry Vegetables	74.54	Frozen vegetables for stir fry	
Teriyaki Sauce	13.84	Teriyaki marinade and sauce, less sodium	
Chicken Broth	7.38	Canned chicken broth, 100% fat free, 33% less sodium	
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	
		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	
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
Thin Spaghetti (uncooked)	7.15	Thin spaghetti NOTE: % based on dry weight
Asparagus Spears	4.10	Frozen asparagus spears,
Fresh Sliced Mushrooms	4.10	Fresh sliced mushrooms
Modified Food Starch, PRIMA 600	2.00	Modified food starch, PRIMA 600
Parmesan Cheese	1.47	Parmesan cheese, shredded
Unsalted Butter	1.45	Fresh unsalted butter, U.S. Grade AA, sweet cream
Instant Milk	0.87	Instant milk, 100% real, nonfat NOTE: The powdered, instant milk shall be obtained in cans
Bread Crumbs	0.50	Bread crumbs, plain
Roasted Vegetable Flavor	0.30	Roasted vegetable flavor, natural
Chicken Broth Flavor	0.30	Chicken broth flavor, natural
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

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,
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
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
		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	
		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	
Green Bell Pepper	9.08	Frozen green bell peppers, diced	
Onions	4.87	Frozen white onions, diced	
Chili Powder	1.10	Chili powder	
Cilantro	0.73	Fresh cilantro	
		NOTE: % based on weight of leaves and small leaf stems	
Cumin	0.31	Cumin, ground	
Black Pepper	0.03	Black pepper, coarse/table grind	
Ground Cayenne Red	0.02	Ground cayenne red pepper	
Pepper			
TOTAL	100.00	Vegetarian Chili, Freeze Dried, Raw Material	

Vegetarian Scramble (Rehydratable)		
INGREDIENT	%	MATERIAL DESCRIPTION
Egg Product	36.17	Refrigerated real egg product
Onion and Bell Pepper Blend, frozen strips	24.00	Frozen onion and bell pepper strips
Sweet Potato, frozen, cubed	11.63	Frozen sweet potato, cubed
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,
Olive Oil, Pure, Light	3.00	Olive oil, light
Salt-Free Seasoning (1)	0.57	Salt-free seasoning,
Salt-Free Seasoning (2)	0.40	Salt-free seasoning, Original,
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

No-Stick Cooking	N/A	No-Stick cooking spray,
Spray		
		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.
Broccoli	8.26	Broccoli florets, frozen
Edamame	6.27	Frozen edamame, mukikame, shelled soybeans.
Wild Rice, Scarified	5.00	Wild Rice, scarified, dry. 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
Ginger, squeeze	1.35	Squeeze ginger
Roasted Vegetable Flavor	1.10	Roasted vegetable flavor, natural
Almonds	1.00	Almonds, slivers, pre-blanched
Sesame Seeds	0.70	Sesame seeds
Rice Vinegar	0.50	Rice vinegar
Starch, Prima 600	0.45	PRIMA 600 starch

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