

Optimal Food Product Development - Demo

Product Development Recipe Detail

Batch No: 1 W/O Number: **Formula: ICRR Orig - Ice Cream Rocky Road Orig**
 Input Set: Rocky Road Ice Cream Orig Order Set: Lot Set: Ice Cream Run Posted Date: Finished Weight 70
 Model Type: 4 - Multi-Level Optimization Result: OPTIMAL - NORMAL - OPTIMAL
 Run Comment: Product Development Demo
 Run: 13146 - 5/18/20xx 6:33:12 AM Period: 001 Scheduled Date: Number of Batches: 1

Ingredient	Lot Account Code	Serving Weight (g)	Package Weight (g)	% Of GW	Cost per Gram	Cost per Pound	Serving Cost	Trigger Cost
ICCP Orig - Chocolate Ice Cream Part Orig	1	52.5000	52.5000	75.00	\$0.00076	\$0.3447	\$0.03990	
ICCA Orig - Chocolate Coated AlmondsPart Orig	1	10.5000	10.5000	15.00	\$0.00239	\$1.0841	\$0.02510	
ICMM Orig - Marshmallow Ribbon Part Orig	1	7.0000	7.0000	10.00	\$0.00086	\$0.3901	\$0.00602	
Serving Size Weight Totals and Averages		70.0000	70.0000	100.00	\$0.00101	\$0.4602	\$0.07102	

Formula Weight Basis Name	Serving Weight	Min	Max	Cost per Gram	Cost per Pound
Finished Weight	70.0000	70.0000	70.0000	\$0.00101	\$0.4602

Constraint Name	Weight Basis	Value	Min	Max	Marginal Value
Calories (per serving)		179.4417			
Calories from Fat (per serving)		102.6453			
Total Fat (g per serving)		11.4050			
SatFat (g per serving)		5.8297			
TransFat (g per serving)					
PolyunsatFat (g per serving)		0.9544			
MonounsatFat (g per serving)		3.9618			
Cholesterol (mg per serving)		26.2402			
Sodium (mg per serving)		40.6101			
Potassium (% DNR)		5.0657			
Total Carbohydrate (g per serving)		18.4152			
Dietary Fiber(avg fw)		1.0103			
Sugars (g per serving)		12.8696			
Protein (g per serving)		3.1518			
Vitamin A (% DNR)		5.5729			
Vitamin C (% DNR)		0.3616			
Calcium % (DNR)		8.2599			
Iron (% DNR)		2.6000			
Choc Ice Cream Part Orig % (W)	Finished Weight	75.0000			
Choc Coated Almond Part Orig % (FW)	Finished Weight	15.0000			
MM Ribbon Part Orig % (FW)	Finished Weight	10.0000			
ChclC Org > ChcCtAlmnd Org % (FW)		5.0000			
ChcCtAlmnd Org > MMRib Orig % (FW)		1.5000			
Milk Fat % (FW)	Finished Weight	8.2795			
Total Milk Solids % (FW)	Finished Weight	15.8799			

Item	Batch Weight	Min Weight	Min If Used	Max Weight	% Of Weight Basis	Min % Weight Basis	Max % Weight Basis	Weight Basis
ICCP Orig - Chocolate Ice Cream Part Orig	52.5000				75.000	75.000		Finished Weight
ICCA Orig - Chocolate Coated AlmondsPart Orig	10.5000				15.000	15.000		Finished Weight
ICMM Orig - Marshmallow Ribbon Part Orig	7.0000				10.000	10.000		Finished Weight
Batch Gross Weight Total	70.0000							

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Product Development Recipe Detail

Batch No: 2 W/O Number: Formula: ICCP Orig - Ice Cream Chocolate part Orig

Input Set: Rocky Road Ice Cream Orig Order Set: Lot Set: Ice Cream Run Posted Date: 0

Model Type: 4 - Multi-Level Optimization Result: OPTIMAL - NORMAL - OPTIMAL

Run Comment: Product Development Demo

Run: 13146 - 5/18/20xx 6:33:12 AM Period: 001 Scheduled Date: Number of Batches: 1

Ingredient	Lot Account Code	Serving Weight (g)	Package Weight (g)	% Of GW	Cost per Gram	Cost per Pound	Serving Cost	Trigger Cost
01211 - MILK,WHL,3.25% MILKFAT,WO/ADDED VIT A & VITAMIN D	1	23.1000	23.1000	44.00	\$0.00055	\$0.2495	\$0.01271	
01077 - MILK,WHL,3.25% MILKFAT,W/ADDED VITAMIN D	1				\$0.00060	\$0.2722		\$600.00120
01052 - CREAM,FLUID,LT WHIPPING	1	17.8500	17.8500	34.00	\$0.00082	\$0.3719	\$0.01464	
01053 - CREAM,FLUID,HVY WHIPPING	2				\$0.00243	\$1.1022		\$600.00483
19335 - SUGARS,GRANULATED	1	4.2000	4.2000	8.00	\$0.00084	\$0.3810	\$0.00353	
19351 - SYRUPS,CORN,HIGH-FRUCTOSE	1	4.2000	4.2000	8.00	\$0.00055	\$0.2495	\$0.00231	
01115 - WHEY,SWEET,DRIED	1	1.5750	1.5750	3.00	\$0.00148	\$0.6713	\$0.00233	
19166 - COCOA,DRY PDR,UNSWTND,PROC W/ALKALI	1	1.0500	1.0500	2.00	\$0.00304	\$1.3789	\$0.00319	
01154 - MILK,DRY,NONFAT,REG,W/ADDED VIT A & VITAMIN D	1	0.5250	0.5250	1.00	\$0.00265	\$1.2020	\$0.00139	

Serving Size Weight Totals and Averages **52.5000** **52.5000** **100.00** **\$0.00076** **\$0.3464** **\$0.04009**

Formula Weight Basis Name	Serving Weight	Min	Max	Cost per Gram	Cost per Pound
Finished Weight	52.5000	52.5000	52.5000	\$0.00076	\$0.3464
MSNF Weight	5.1793				

Constraint Name	Weight Basis	Value	Min	Max	Marginal Value
Milk Fat % (FW)	Finished Weight	9.9726			
MSNF % (FW)	Finished Weight	9.8654			
Total Milk Solids % (FW)	Finished Weight	19.8292			
Total Solids % (FW)	Finished Weight	35.8892			
Whey % (MSNF)	MSNF Weight	30.4093			
Milk, Whole % (FW)	Finished Weight	44.0000			
Cream % (FW)	Finished Weight	34.0000			
SugarGran % (FW)	Finished Weight	8.0000			
Corn Syrup % (FW)	Finished Weight	8.0000			
Whey % (FW)	Finished Weight	3.0000			
Cocoa % (FW)	Finished Weight	2.0000			
Milk, Dry % (FW)	Finished Weight	1.0000			
Milk. Whole > Cream % (FW)		1.2941			
Cream > Sugar % (FW)		4.2500			
Sugar = Syrup % (FW)		1.0000			
Cocoa > Milk, Dry % (FW)		2.0000			
Syrup > Whey % (FW)		2.6667			

Item	Batch Weight	Min Weight	Min If Used	Max Weight	% Of Weight Basis	Min % Weight Basis	Max % Weight Basis	Weight Basis

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01211 - MILK,WHL,3.25% MILKFAT,WO/ ADDED VIT A & VITAMIN D	23.1000				44.000	44.000	Finished Weight
01077 - MILK,WHL,3.25% MILKFAT,W/ ADDED VITAMIN D							
01052 - CREAM,FLUID,LT WHIPPING	17.8500				34.000	34.000	Finished Weight
01053 - CREAM,FLUID,HVY WHIPPING							
19335 - SUGARS,GRANULATED	4.2000				8.000	8.000	Finished Weight
19351 - SYRUPS,CORN,HIGH-FRUCTOSE	4.2000				8.000	8.000	Finished Weight
01115 - WHEY,SWEET,DRIED	1.5750				3.000	3.000	Finished Weight
19166 - COCOA,DRY PDR,UNSWTND,PROC W/ALKALI	1.0500				2.000	2.000	Finished Weight
01154 - MILK,DRY,NONFAT,REG,W/ ADDED VIT A & VITAMIN D	0.5250				1.000	1.000	Finished Weight
Batch Gross Weight Total	52.5000						

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Product Development Recipe Detail

Batch No: 3 W/O Number: Formula: ICMM Orig - Ice Cream Marshmallow Ribbon part Orig

Input Set: Rocky Road Ice Cream Orig Order Set: Lot Set: Ice Cream Run Posted Date: 0

Model Type: 4 - Multi-Level Optimization Result: OPTIMAL - NORMAL - OPTIMAL

Run Comment: Product Development Demo

Run: 13146 - 5/18/20xx 6:33:12 AM Period: 001 Scheduled Date: Number of Batches: 1

Ingredient	Lot Account Code	Serving Weight (g)	Package Weight (g)	% Of GW	Cost per Gram	Cost per Pound	Serving Cost	Trigger Cost
01052 - CREAM,FLUID,LT WHIPPING	1	2.2400	2.2400	32.00	\$0.00082	\$0.3719	\$0.00184	
01053a - CREAM,FLUID,HVY WHIPPING (1)	2	0.7000	0.7000	10.00	\$0.00243	\$1.1022	\$0.00170	
19351 - SYRUPS,CORN,HIGH-FRUCTOSE	1	2.1000	2.1000	30.00	\$0.00055	\$0.2495	\$0.00115	
19350 - SYRUPS,CORN,LT	1				\$0.00117	\$0.5307		\$600.00237
01211a - MILK,WHL,3.25% MILKFAT,WO/ ADDED VIT A & VITAMIN D (1)	2	1.0500	1.0500	15.00	\$0.00055	\$0.2495	\$0.00058	
01077a - MILK,WHL,3.25% MILKFAT,W/ ADDED VITAMIN D (1)	2				\$0.00060	\$0.2722		\$600.00120
19335 - SUGARS,GRANULATED	1	0.8400	0.8400	12.00	\$0.00084	\$0.3810	\$0.00071	
01114 - WHEY,SWEET,FLUID	1	0.0700	0.0700	1.00	\$0.00052	\$0.2359	\$0.00004	
01115 - WHEY,SWEET,DRIED	1				\$0.00148	\$0.6713		\$600.00298
Serving Size Weight Totals and Averages		7.0000	7.0000	100.00	\$0.00086	\$0.3896	\$0.00601	

Formula Weight Basis Name	Serving Weight	Min	Max	Cost per Gram	Cost per Pound
Finished Weight	7.0000	7.0000	7.0000	\$0.00086	\$0.3896

Constraint Name	Weight Basis	Value	Min	Max	Marginal Value
Cream % (FW)	Finished Weight	42.0000			
Corn Syrup % (FW)	Finished Weight	30.0000			
Milk, Whole % (FW)	Finished Weight	15.0000			
SugarGran % (FW)	Finished Weight	12.0000			
Whey % (FW)	Finished Weight	1.0000			
Cream> Sugar % (FW)		3.5000			
Syrups > Milk, Whole % (FW)		2.0000			
Milk. Whole > Sugar % (FW)		1.2500			
Sugar > Whey % (FW)		12.0000			

Item	Batch Weight	Min Weight	Min If Used	Max Weight	% Of Weight Basis	Min % Weight Basis	Max % Weight Basis	Weight Basis
01052 - CREAM,FLUID,LT WHIPPING	2.2400				32.000	32.000		Finished Weight
01053a - CREAM,FLUID,HVY WHIPPING (1)	0.7000				10.000	10.000		Finished Weight
19351 - SYRUPS,CORN,HIGH-FRUCTOSE	2.1000				30.000	30.000		Finished Weight
19350 - SYRUPS,CORN,LT								
01211a - MILK,WHL,3.25% MILKFAT,WO/ ADDED VIT A & VITAMIN D (1)	1.0500				15.000	15.000		Finished Weight
01077a - MILK,WHL,3.25% MILKFAT,W/ ADDED VITAMIN D (1)								
19335 - SUGARS,GRANULATED	0.8400				12.000	12.000		Finished Weight
01114 - WHEY,SWEET,FLUID	0.0700				1.000	1.000		Finished Weight
01115 - WHEY,SWEET,DRIED								

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Batch Gross Weight Total	7.0000
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Product Development Recipe Detail

Batch No: 4 W/O Number: Formula: ICCA Orig - Ice CreamChocCoatedAlmonds part Orig								
Input Set: Rocky Road Ice Cream Orig Order Set:			Lot Set: Ice Cream		Run Posted Date: 0			
Model Type: 4 - Multi-Level Optimization Result: OPTIMAL - NORMAL - OPTIMAL								
Run Comment: Product Development Demo								
Run: 13146 - 5/18/20xx 6:33:12 AM Period: 001 Scheduled Date: Number of Batches: 1								
Ingredient	Lot Account Code	Serving Weight (g)	Package Weight (g)	% Of GW	Cost per Gram	Cost per Pound	Serving Cost	Trigger Cost
12063 - ALMONDS,DRY ROASTED,WO/SALT	1	5.2500	5.2500	50.00	\$0.00340	\$1.5422	\$0.01785	
12563 - ALMONDS,DRY ROASTED,W/SALT	1				\$0.00340	\$1.5422		\$600.00680
19336 - SUGARS,POWDERED	1	3.1500	3.1500	30.00	\$0.00084	\$0.3810	\$0.00265	
19335 - SUGARS,GRANULATED	1				\$0.00084	\$0.3810		\$600.00174
04659 - OIL,INDUSTRIAL,COCNT,CONFECTION FAT,ICE CRM COATINGS	1	0.6300	0.6300	6.00	\$0.00218	\$0.9888	\$0.00137	
04656 - OIL,INDUSTRIAL,PALM KERNEL,CONFECTION FAT	1	0.4305	0.4305	4.10	\$0.00119	\$0.5398	\$0.00051	
04657 - OIL,INDUSTRIAL,PALM KERNEL (HYDROGENATED),CONFECTION FAT	1				\$0.00126	\$0.5715		\$600.00256
01154a - MILK,DRY,NONFAT,REG,W/ ADDED VIT A & VITAMIN D (1)	2	0.4830	0.4830	4.60	\$0.00265	\$1.2020	\$0.00128	
01091a - MILK,DRY,NONFAT,REG,WO/ ADDED VIT A & VITAMIN D (1)	2				\$0.00258	\$1.1703		\$600.00518
19166 - COCOA,DRY PDR,UNSWTND,PROC W/ALKALI	1	0.4200	0.4200	4.00	\$0.00304	\$1.3789	\$0.00128	
01003 - BUTTER OIL,ANHYDROUS	1	0.1050	0.1050	1.00	\$0.00165	\$0.7484	\$0.00017	
04531 - OIL,SOYBN LECITHIN	1	0.0315	0.0315	0.30	\$0.00117	\$0.5307	\$0.00004	
Serving Size Weight Totals and Averages		10.5000	10.5000	100.00	\$0.00240	\$1.0864	\$0.02515	
Formula Weight Basis Name		Serving Weight	Min	Max	Cost per Gram	Cost per Pound		
Finished Weight		10.5000	10.5000	10.5000	\$0.00240	\$1.0864		
Constraint Name	Weight Basis	Value		Min	Max	Marginal Value		
Almonds % (FW)	Finished Weight	50.0000						
Sugars % (FW)	Finished Weight	30.0000						
Oils % (FW)	Finished Weight	10.1000						
Milk, Dry % (FW)	Finished Weight	4.6000						
Cocoa % (FW)	Finished Weight	4.0000						
Butter Anhydrous % (FW)	Finished Weight	1.0000						
Lecithin % (FW)	Finished Weight	0.3000						
Almonds > Sugar % (FW)		1.6667						
Sugar > Whey % (FW)								
Oil > Milk Dry % (FW)		2.1957						
MilkDry > Cocoa % (FW)		1.1500						
CocoaAlkalyzed > ButterAnhydrous % (FW)		4.0000						
ButterAnhydrous > Lecithin % (FW)		3.3333						
Almond Item Count		1.0000						
Sugars Item Count		1.0000						
Oil Item Count		2.0000						

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MilkDry Item Count					1.0000				
Cocoa Item Count					1.0000				
Item	Batch Weight	Min Weight	Min If Used	Max Weight	% Of Weight Basis	Min % Weight Basis	Max % Weight Basis	Weight Basis	
12063 - ALMONDS, DRY ROASTED, WO/SALT	5.2500				50.000	50.000		Finished Weight	
12563 - ALMONDS, DRY ROASTED, W/SALT									
19336 - SUGARS, POWDERED	3.1500				30.000	30.000		Finished Weight	
19335 - SUGARS, GRANULATED									
04659 - OIL, INDUSTRIAL, COCNT, CONFECTION FAT, ICE CRM COATINGS	0.6300				6.000	6.000		Finished Weight	
04656 - OIL, INDUSTRIAL, PALM KERNEL, CONFECTION FAT	0.4305				4.100	4.100		Finished Weight	
04657 - OIL, INDUSTRIAL, PALM KERNEL (HYDROGENATED), CONFECTION FAT									
01154a - MILK, DRY, NONFAT, REG, W/ ADDED VIT A & VITAMIN D (1)	0.4830				4.600	4.600		Finished Weight	
01091a - MILK, DRY, NONFAT, REG, WO/ ADDED VIT A & VITAMIN D (1)									
19166 - COCOA, DRY PDR, UNSWTND, PROC W/ALKALI	0.4200				4.000	4.000		Finished Weight	
01003 - BUTTER OIL, ANHYDROUS	0.1050				1.000	1.000		Finished Weight	
04531 - OIL, SOYBN LECITHIN	0.0315				0.300	0.300		Finished Weight	
Batch Gross Weight Total	10.5000								