

	FINISHED GOOD SPECIFICATION	CONFIDENTIAL
	KIN NEW SPRITZ	Status: DRAFT Document #: SPEC 804.002 Revision Date: September 21, 2021
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PRODUCT DETAIL	
Product Name	Kin New Spritz
Product Description	Carbonated Ready-to-Drink Nightlife Beverage with adaptogens, nootropics and vitamins
Process Description	Slow ingredient addition and agitation / carbonated / steam pasteurized
Shelf Life	12 months



INGREDIENTS	
Ingredient Code	Ingredient
ING01	Kin Proprietary Blend
-	GABA
-	L-Theanine
-	Citicoline
-	Aragum
-	5-HTP
-	Phenylethylamine
-	Rhodiola Rosea Root Extract
-	L-Tyrosine
-	Caffeine
ING02	Carbonated Water
ING04	White Grape Juice Concentrate
ING47	Agave
ING06	Gentian Root Extract
ING07	Orange Peel Extract
ING08	Licorice Root Extract
ING03	Hibiscus Extract
ING09	Citric Acid
ING10	Bitter Orange Extract
ING46	Orange Extract (Orange Primo)
ING12	Ginger Extract
ING13	Sea Salt

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SENSORY		
Parameter	Description	Method
Appearance	Light Brick/Ruby Carbonated Beverage	Visual Inspection
Flavor & Aroma	Earthy florals, juicy hibiscus, tart citrus, bitter citrus, refreshing citrus, slightly astringent.	Organoleptic Evaluation
Defects	Less than 10% defects	Visual Inspection
Extraneous Vegetable Material	Shall be free of vegetative extraneous material	Visual Inspection
Foreign Material	Shall be free of foreign material	Visual Inspection

PHYSICAL PROPERTIES					
Parameter	Target	Min	Max	Units	Method
Fill Weight	0.53	0.522	0.555	lbs	Gravimetric
CO ₂	2.5	2.4	2.6	Volume	CO ₂ meter
pH	3.65	3.60	3.70		pH meter
Brix	4.7	4.6	4.8	°Bx	Refractometer
Color	28.8	24.5	33.1	L*	Spectrophotometer
	22.1	18.8	25.4	a*	
	15.1	12.8	17.3	b*	
PER SERVING					
Kin Proprietary Blend	586	586	-	mg	-
GABA	TBD	TBD	-	mg	Internal HPLC 2218
L-Theanine	TBD	TBD	-	mg	Internal HPLC 2218
Citicoline	TBD	TBD	-	mg	Internal HPLC 2218
Aragum	TBD	TBD	-	mg	Internal HPLC 2218
5-HTP	TBD	TBD	-	mg	Internal HPLC 2218
Phenylethylamine	TBD	TBD	-	mg	Internal HPLC 2218
Rhodiola Rosea Extract	TBD	TBD	-	mg	Internal HPLC 2218
L-Tyrosine	TBD	TBD	-	mg	Internal HPLC 2218
Caffeine	50	50	-	mg	AOAC 979.08
Niacin	5	5	-	mg	AOAC 985.34 & Kit
Vitamin B6	1	1	-	mg	USFDA (AOAC) 400
Folate	300	300	-	mcg DFE	AOAC 960.46 & Kit

MICROBIOLOGICAL PROPERTIES				
Parameter	Specification	Units	Test Method	Lab/Personnel Responsible
Total Plate Count	<100	cfu/g	AOAC 990.12	QA/External Lab

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Coliforms	<10	cfu/g	AOAC 991.14	QA/External Lab
E. coli	<10	cfu/g	AOAC 991.14	QA/External Lab
Genus Listeria	Negative	/375g	AOAC 2004.06	QA/External Lab
Salmonella	Negative	/375g	AOAC 2004.03	QA/External Lab
Staph aureus	<10	cfu/g	AOAC 2003.07	QA/External Lab
Yeast & Mold	<10	cfu/g	FDA-BAM, 7 th ed.	QA/External Lab
Lactobacilli	<10	cfu/g	CMMEF, 4 th ed.	QA/External Lab

SAMPLING REQUIREMENTS			
Parameter	Frequency	Type of Analysis	Lab/Personnel Responsible
Fill Weight	1 sample per 30 minutes	Gravimetric	QA
CO₂	1 sample per 30 minutes	CO ₂ meter	QA
pH	1 sample per 30 minutes	pH meter	QA
Brix	1 sample per 30 minutes	Refractometer	QA
Color	Retain	Spectrophotometer	AMT
Sensory	1 sample collected per shift; 1 sensory panel per day	Organoleptic	QA
Microbial	1 sample collected per lot (shift); 1 retain per day	APC, Coliforms, E. coli, Genus Listeria, Salmonella, Staph aureus, Yeast & Mold, Lactobacilli	QA/External Lab
Nutritionals	Quarterly	Nutritionals	External Lab
Niacin	1 sample collected per lot	Supplement Analysis	External Lab
Vitamin B6	1 sample collected per lot	Supplement Analysis	External Lab
Folic Acid	1 sample collected per lot	Supplement Analysis	External Lab
GABA	1 sample collected per lot	Supplement Analysis	External Lab
L-Theanine	1 sample collected per lot	Supplement Analysis	External Lab
Citicoline	1 sample collected per lot	Supplement Analysis	External Lab
5-HTP	1 sample collected per lot	Supplement Analysis	External Lab
Phenylethylamine	1 sample collected per lot	Supplement Analysis	External Lab
Rhodiola Rosea Extract	1 sample collected per lot	Supplement Analysis	External Lab
L-Tyrosine	1 sample collected per lot	Supplement Analysis	External Lab
Caffeine	1 sample collected per lot	Supplement Analysis	External Lab

ALLERGEN DECLARATION			
Allergen	The product contains this allergen or its derivatives	The product is processed on the same line/equipment that handles this allergen or its derivatives	The product is processed in a facility that handles this allergen or its derivatives

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Crustacean	No	No	No
Egg	No	No	No
Fish	No	No	No
Milk	No	No	No
Peanut	No	No	No
Shellfish	No	No	No
Soy	No	No	No
Tree Nut	No	No	No
Wheat	No	No	No

CERTIFICATIONS		
Certification	Authority	Notes

SUPPLEMENT FACTS PANEL																																											
Supplement Facts	<div style="border: 1px solid black; padding: 5px;"> <p>Supplement Facts</p> <p>Serving Size: 8 fl oz (237 ml) Servings Per Container: 1 Can</p> <table border="1"> <thead> <tr> <th>Amount Per Serving</th> <th></th> <th>% DV</th> </tr> </thead> <tbody> <tr> <td>Calories</td> <td>35</td> <td></td> </tr> <tr> <td>Total Carbohydrate</td> <td>8 g</td> <td>3%*</td> </tr> <tr> <td> Dietary Fiber</td> <td>1 g</td> <td>4%*</td> </tr> <tr> <td> Total Sugars</td> <td>6 g</td> <td>**</td> </tr> <tr> <td> Includes 3g Added Sugars</td> <td></td> <td>6%*</td> </tr> <tr> <td>Niacin (as niacinamide)</td> <td>5 mg</td> <td>31%</td> </tr> <tr> <td>Vitamin B6 (as Pyridoxine HCL)</td> <td>1 mg</td> <td>59%</td> </tr> <tr> <td>Folate (Folic Acid)</td> <td>300 mcg DFE</td> <td>75%</td> </tr> <tr> <td>Calcium</td> <td>28 mg</td> <td>2%</td> </tr> <tr> <td>Sodium</td> <td>30 mg</td> <td>1%</td> </tr> <tr> <td>Kin Proprietary Blend™</td> <td>536 mg</td> <td>**</td> </tr> <tr> <td colspan="3">Gamma-Aminobutyric Acid (GABA), L-Theanine, Citocoline, Gum Acacia, 5-Hydroxytryptophan (5-HTP), Phenylethylamine, Rhodiola Rosea Root Extract, L-Tyrosine</td> </tr> <tr> <td>Caffeine per serving:</td> <td>50 mg</td> <td></td> </tr> </tbody> </table> <p>* Percent Daily Values are based on a 2,000 calorie diet ** Daily Value not established</p> </div>	Amount Per Serving		% DV	Calories	35		Total Carbohydrate	8 g	3%*	Dietary Fiber	1 g	4%*	Total Sugars	6 g	**	Includes 3g Added Sugars		6%*	Niacin (as niacinamide)	5 mg	31%	Vitamin B6 (as Pyridoxine HCL)	1 mg	59%	Folate (Folic Acid)	300 mcg DFE	75%	Calcium	28 mg	2%	Sodium	30 mg	1%	Kin Proprietary Blend™	536 mg	**	Gamma-Aminobutyric Acid (GABA), L-Theanine, Citocoline, Gum Acacia, 5-Hydroxytryptophan (5-HTP), Phenylethylamine, Rhodiola Rosea Root Extract, L-Tyrosine			Caffeine per serving:	50 mg	
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Caffeine per serving:	50 mg																																										
Other Ingredients	<div style="border: 1px solid black; padding: 5px;"> <p>OTHER INGREDIENTS: Carbonated water, white grape juice concentrate, agave, gentian root extract, orange peel extract, licorice root extract, hibiscus extract, citrus acid, bitter orange extract, orange extract, xanthan gum, acacia gum, ginger extract, sea salt.</p> </div>																																										

STORAGE REQUIREMENTS	
Storage Description	Refrigerated on-site

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Storage Humidity	
Storage Temperature	55-72°F

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PRIMARY PACKAGING

8oz Slek 202/204x405

Can
Can
Drawin
g

NECK & FLANGED CAN

		US STANDARD	METRIC
A	BODY OUTSIDE DIAMETER	2.259 ± .008	57.37 ± 0.20
B	FLANGE WIDTH	.082 ± .010	2.08 ± 0.25
C	FLANGE ANGLE	12° MAX	
D	NECK PLUG DIAMETER	2.063 ± .007	52.40 ± 0.18
E	FLANGED CAN HEIGHT	4.313 ± .015	109.55 ± 0.38
F	BASE DIAMETER	1.789	45.44
	FILL VOLUME	8.00 ± .06	236.59 ± 1.77
	FREEBOARD	470 ± .020	11.94 ± 0.51
	MATERIAL	H-19 ALUM	
	COLUMN STRENGTH	MIN	PER CUSTOMER REQUIREMENT
	DOM REVERSAL PRESSURE	MIN	90 PSI / 620 PKA

BALL
METAL BEVERAGE CONTAINER OPERATIONS
9300 W. 108TH CIRCLE
WESTMINSTER, CO 80021-3662
P.O. BOX 589, BROOKFIELD, CO 80038-0589

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202/204 X 405
8 OZ SLEEK - B24RT DOME
BEVERAGE / BEER
MANUFACTURING SPECIFICATIONS

PRODUCT STANDARD
CS-A1186

DATE CREATED 3/10/15	APPROVED D ARAGON
CREATED BY N ZANETELL	APPROVED E BRYANT
DATE REVISED	REV. A

Closure

202 LOE End

Label

Shrink Sleeve

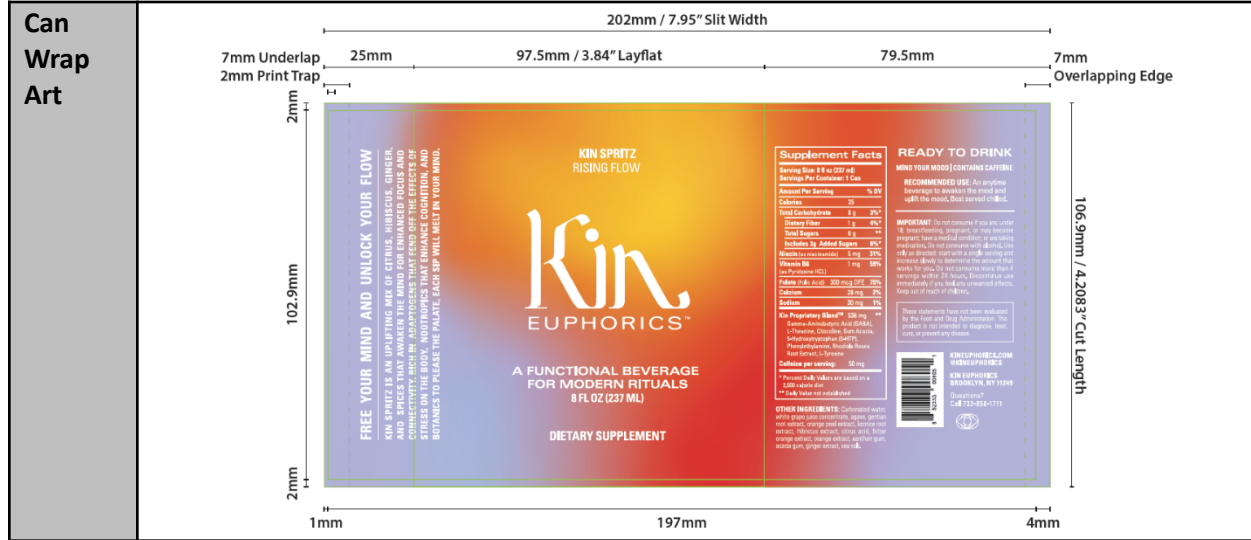
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CODING FORMAT	
Best By Date	"Best By MM/DD/YY"
Example	Best By 03/22/22

MANUFACTURER'S CASE PACKOUT	
Case	Corrugated tray
Configuration	24 Can Shrink Wrap (24 cans per tray)
Case Dimensions	L = 14.75" W = 9.5" H = 4.75"
Case Weight	14.02 lbs
Case Art	N/A

SECONDARY PACKAGING	
Carton	4-Pack; Pre-glued; self-closing
Carton Configuration	4 cans per carton
Carton Dimensions	L = 4.625" W = 4.625" H = 4.5"
Carton Weight	2.29 lbs

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PALLET														
Pallet Pattern	<p style="text-align: center;">8oz Sleek Pallet Configuration</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; height: 20px;">1</td> <td style="width: 40px; height: 20px;">2</td> <td style="width: 40px; height: 20px;">3</td> <td rowspan="4" style="vertical-align: middle; padding-left: 10px;">48"</td> </tr> <tr> <td rowspan="2" style="width: 20px; height: 20px;">4</td> <td style="width: 40px; height: 20px;">5</td> <td style="width: 40px; height: 20px;">6</td> <td style="width: 40px; height: 20px;">7</td> </tr> <tr> <td rowspan="2" style="width: 20px; height: 20px;">8</td> <td style="width: 40px; height: 20px;">9</td> <td style="width: 40px; height: 20px;">10</td> </tr> <tr> <td style="width: 40px; height: 20px;">11</td> <td style="width: 40px; height: 20px;">12</td> </tr> </table> <p style="text-align: center;">40"</p>	1	2	3	48"	4	5	6	7	8	9	10	11	12
	1	2	3	48"										
4	5	6	7											
	8	9	10											
11		12												
Ti Hi	12 x 8													
Configuration														
Layers	8 layers per pallet													
Cases	12 cases per layer													
Pallet	96 cases per pallet													

REVISION HISTORY		
Revision	Date	Description
000	April 29, 2021	Initial Issue DRAFT
001	May 7, 2021	Updated
002	September 13, 2021	Added Pasteurization, Agave, Updated Label Images, Secondary Packaging, Pallet Pattern

Approved by Kin Euphorics:

x _____

Date: _____

Vinnie Cruz
Quality Director
Kin Euphorics