

BioAmber

NATURAL SOLUTIONS FOR CLEAN LABEL SEASONINGS

BBQ SNACK MIX FORMULATION



BBQ SEASONING MIX FORMULATION

INGREDIENTS	BBQ 1 Weight %	BBQ 2 Weight %	BBQ 3 Weight %
Salt – Top-Flo®	19.90	14.06	14.11
MSG	1.11	–	–
Bio-based Disodium Succinate	–	0.22	0.15
BIO-SA™ Bio-based Succinic Acid	–	–	0.04
Sugar	20.50	22.25	22.25
Dextrose – ADM Clintose	12.53	13.60	13.59
Onion Powder – McCormick	3.42	3.70	3.70
Maltodextrin – GPC M-100	31.89	34.61	34.60
Paprika Powder – McCormick	3.42	3.71	3.71
Garlic Powder – McCormick	0.68	0.74	0.74
Mesquite Flavor – Kerry	0.40	0.43	0.43
Cumin Powder – McCormick	0.23	0.25	0.25
Tomato Powder – Diana	5.69	6.18	6.18
Sunflower Oil	0.23	0.25	0.25
TOTAL	100.00	100.00	100.00

Mix Description

BBQ 1

CONTROL with full Evaporated Salt and MSG

BBQ 2

No MSG with
30% reduced Sodium
+ Bio-based
Disodium Succinate

BBQ 3

No MSG with
30% reduced Sodium
+ Bio-based
Disodium Succinate
+ BIO-SA™
Bio-based
Succinic
Acid



SNACK MIX INGREDIENTS	Weight %
BBQ seasoning	10.00
Canola Oil	16.00
Rice Chex™ or other snack mix	74.00
TOTAL	100.00

PREPARATION

Dry blend seasoning until combined.
Spray cereal mixture with Canola Oil.
Gently toss to distribute oil evenly
onto the cereal mixture. Sprinkle BBQ
seasoning over oil coated cereal mix.
Gently toss to distribute seasoning
evenly over cereal mixture.

SODIUM PER 28 g SERVING (from seasoning mix)

Control: 223 mg Sodium

Reduced Sodium – MSG free with Bio-based Disodium Succinate: 156 mg Sodium

Reduced Sodium – MSG free with BIO-SA™ Bio-based Succinic Acid
and Bio-based Disodium Succinate: 156 mg Sodium

Top-Flo® – registered trademark owned by Cargill, Incorporated.
Rice Chex™ – trademark owned by Gardetto's Bakery, Inc.



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BioAmber NATURAL SOLUTIONS FOR CLEAN LABEL SEASONINGS

WHITE CHEDDAR CHEESE SNACK MIX FORMULATION



WHITE CHEDDAR CHEESE SEASONING MIX FORMULATION

INGREDIENTS	CHEESE 1 Weight %	CHEESE 2 Weight %	CHEESE 3 Weight %
Cheese Powder – Kraft SharpEE 270 PI	93.92	98.11	98.18
Salt – Top-Flo®	4.73	1.60	1.82
MSG	1.35	0.00	0.00
Bio-based Disodium Succinate	0.00	0.29	0.00
TOTAL	100.00	100.00	100.00

Mix Description

- CHEESE 1**
CONTROL with full Evaporated Salt and MSG
- CHEESE 2**
No MSG with 30% reduced Sodium + Bio-based Disodium Succinate
- CHEESE 3**
No MSG or Bio-based Disodium Succinate with 30% reduced Sodium

SNACK MIX INGREDIENTS	Weight %
White Cheddar Cheese seasoning	23.42
Canola Oil	15.00
Rice Chex™ or other snack mix	61.58
TOTAL	100.00



PREPARATION

Dry blend seasoning until combined.
Spray cereal mixture with Canola Oil.
Gently toss to distribute oil evenly onto the cereal mixture.
Sprinkle Cheese Powder seasoning over oil coated cereal mix.
Gently toss to distribute seasoning evenly over cereal mixture.

SODIUM PER 28 g SERVING (from seasoning mix)

Control: 297 mg Sodium

Reduced Sodium – MSG free with Bio-based Disodium Succinate: 211 mg Sodium

Top-Flo® – registered trademark owned by Cargill, Incorporated.
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