

WESTNUT PRODUCT SPECIFICATION

PRODUCT: DRY ROASTED HAZELNUT MEAL

25# Vacuum Packed Case

ITEM# 53114

WNQA# 400

Date: 10/31/06

Supercedes: 03/12/02

DESCRIPTION

A hazelnut kernel is roasted using infrared lamps, cut to a dice size and has the natural flavor and odor of roasted hazelnuts. No unauthorized additives, fumigants, pesticides or preservatives are permitted.

ORGANOLEPTIC

Color	Cream to tan meats with red brown to dark brown skins.
Flavor & Odor	Clean. Typical of hazelnuts. No musty, rancid, bitter or other off flavors or odors.
Texture	Firm, crunchy.

CHEMICAL & PHYSICAL

<u>PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST METHOD</u>
Aflatoxin	10 ppb Maximum	AOAC
Fat	59.4 +/- 3.0%	AOAC
Free Fatty Acid (as oleic)	1.0% Maximum	AOAC
Moisture	3.2% Maximum	AOAC
Particle Size		
On U.S #10 0.08in 2mm	20% Maximum	Westnut 1710
Thru U.S. #10	99% Maximum	
Pesticide Residual	None Detectable	MRM Pesticide Screen
Foreign Material	4 shell fragment per 100 lbs Max	Westnut 1220

Extraneous Matter: The product shall be free of any extraneous matter of any sanitary significance.
The producer shall meet all FDA and/or USDA Good Manufacturing Practices.

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MICROBIOLOGICAL

<u>PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST METHOD</u>
Standard Plate Count	10,000 per gram maximum	AOAC
Coliform	Less than 100 per gram	AOAC
E. Coli	Less than 10 per gram	AOAC
Mold	Less than 500 per gram	BAM FDA
Yeast	Less than 500 per gram	BAM FDA
Salmonella	Negative	AOAC
Staphylococcus aureus	Less than 20 per gram	BAM FDA
Listeria	Negative	AOAC

STORAGE AND PACKAGING REQUIREMENTS

Packaging Cases marked with supplier's name, product name and lot code. 25 lb. net corrugated cardboard boxes are sealed with tape. Foil liners are vacuum packed, back flushed with nitrogen, and heat sealed. No staples or wire ties are permitted.

Shelf Life 12 months at 34° to 38°F.

Lot Code Production Date, WXXYYZ, where W indicates shift, XX indicates month, YY indicates date, and Z indicates the last digit of the year.

NOTE: DO NOT STORE NEAR ODOR PRODUCING SUBSTANCES.

SPECIAL INSTRUCTIONS

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Composition of Roasted Hazelnut Kernels

Nutrient **100 gram edible portion**

Energy	646
Moisture	2.52
Protein	15.03
Total Fat	62.40
Saturated	4.511
Monounsaturated	46.608
Polyunsaturated	8.463
Trans Fat	0
Cholesterol	0.000
Total Dietary Fiber	9.4
Total Carbohydrate	17.6
Sugars	4.89

Micronutrients in mg

Calcium	123
Iron	4.38
Sodium	0.00
Potassium	755
Magnesium	173
Phosphorus	310
Zinc	2.50
Copper	1.75
Vitamin E	15.438
Vitamin C	3.8
Vitamin A	61 IU