Barrow, Lane & Ballard	**Raw Material Specification**	**Product Code:** ALM-200
	US Shelled Almonds (RAW)	
	Authorised by: Mark Gravette	**Issue Date: 10/01/2019; Review Date: 04/01/2023; Version: 3**

Product Details	
Product Name	Almonds - *Amygdalus communis L. var. dulcis*
Country of Origin	California - U.S.A and Spain
Packaging Materials	Product packed in 50 lb food grade cardboard cartons and glued or in poly super sacks (up to 2,200 lbs / sack) 50 lb cartons are typically stacked: 40 per pallet (the height of the pallet will not exceed a maximum height of 1.6m)
Minimum Shelf Life	18 months from date of production
Security Sealing	Temper evidence glued outer case
Storage	Cool, dry place, away from light. Store at 50-70 °F, low humidity. Avoid exposure to strong odours of other materials if exposed for prolonged periods
Ingredient Declaration	Almonds
Allergen Statement	Almonds are a tree nut and may cause an allergic reaction in consumers who are sensitive to tree nut allergens

Physical Characteristics	
Appearance	Tear drop, flat shape with smooth surface
Colour	Natural brown with creamy white
Taste/Flavour	Wholesome, very mild, sweet, light buttery and nutty taste with no adverse flavour or taint
Odour	Free from any off odours
Texture	Crisp, Crunchy, not soft
Sizing	Count range of number of kernels per ounce (28.35 grams)
Foreign material	As per USDA grade
Metal, Glass, or Hard Plastic	None allowed

Grades According to USDA Standards

Grade	Dissimilar	Doubles	Chip & Scratch	Foreign Material	Particles & Dust	Split & broken	Other Defects	Serious Defects
Independence US#1	5%	15%	10%	0.05%	0.1%	1%	3%	1.5%
US Extra No. 1	5%	5%	5%	0.05%	0.1%	1%	4%	1.5%
US No. 1	5%	15%	10%	0.05%	0.1%	1%	5%	1.5%
US Select Sheller Run	5%	15%	20%	0.1%	0.1%	5%	3%	2%
US Standard Sheller Run	5%	25%	35%	0.2%	0.1%	15%	3%	2%
Also, included in "Other Defects"		Includes max2% under 20/64 inch			Includes max 5% under 20/64 inch. % Also included in "Chip & Scratch"			

Dissimilar	Typically used for whole almond applications or for further processing such as blanching and roasting.
Doubles	Two kernels developing in one shell. One side of a double kernel is flat or concave.
Chip & Scratch	Loss of kernel skin as a result of mechanical processing. Greater than 1/8" (3.2mm) in diameter, it is defined as injury; if affecting, in aggregate, greater than 1/4" (6.4mm) in diameter, it is defined as defect.

Foreign Material	Pieces of shell, hulls, or other foreign matter that will not pass-through a round-opening screen measuring 8/64" (3.2mm) in diameter.
Particles & Dust	Fragments of almond kernels or other material that will pass through a round-opening screen measuring 8/64" (3.2mm) in diameter.
Split & Broken	Seven-eighths or less of complete whole kernels that will not pass-through a round-opening screen measuring 8/64" (3.2mm) in diameter.
Other Defects	Any defect that materially detracts from the appearance of the individual kernel or the edible or shipping quality of the almonds. The defects include gum, shrivel, brown spot, discoloured, and chipped and scratched kernels greater than 1/4" (6.4mm) in diameter.
Serious Defects	Any defect that makes a kernel or piece of kernel unsuitable (includes decay, rancidity, insect injury, and damage by mould).

Chemical Parameters		
	Target	*Maximum*
Moisture (%)	4	6
Free Fatty Acids (%)	<1.5	1.5
Peroxide Value (meq/kg)	< 5	5
Aflatoxin B1 (µg/kg)	0	8
Total Aflatoxin (B1, B2, G1, G2) (µg/kg)	0	10
Pesticides	To comply with UK/EU Legislation on residue levels	
Heavy Metals	To comply with UK/EU Legislation on residue levels	
Irradiation	The product is free from irradiation treatment	

Microbiological Parameters		
	Target (cfu/g)	***Maximum (cfu/g)***
TVC	<50,000	<100,000
Enterobacteriaceae	<100	100
Coliforms	<100	1000
E. coli	Negative	10
Yeasts	<5000	<5,000
Moulds	<5000	<5000
Salmonella	Negative/25g	Negative/25g
Staphylococcus aureus	Negative/g	absent
Streptococcus	<100	100

Major Serious Allergens							
Allergen (Including derivates of the named allergen)	**Present in Product**	**Present on Line**	**Present in Factory**	**Allergen (Including derivates of the named allergen)**	**Present in Product**	**Present on Line**	**Present in Factory**
Peanuts and peanuts derivatives	No	No	No	Egg	No	No	No
Nuts - other nuts **(only Almonds)**	**Yes**	**Yes**	**Yes**	Celery	No	No	No
Sesame Seeds	No	No	No	Mustard	No	No	No
Crustacea	No	No	No	Soya	No	No	No

Fish	No	No	No	Wheat, barley, rye, oats etc.	No	No	No
Milk and Milk by products	No	No	No	Lupin	No	No	No
Molluscs	No	No	No	Sulphites inc SO_2	No	No	No

Finished Product Nutritional Standards				
Parameter	**Typical value (Per 100g)**	**Method of Determination**	**Frequency of Testing**	**Source of Information (Laboratory Name and certification details, or Reference Data source)**
Energy kJ	2407	USDA	NA	USDA
Energy kcal	575			
Fat	49.4			
Of which saturates	3.7			
Of which mono-unsaturated	30.9			
Of which poly-unsaturated	12.1			
Carbohydrates	21.7			
Of which sugars	3.9			
Fibre (AOAC)	12.2			
Protein	21.2			
Salt	<0.01g			

GMO Declaration: **To comply with UK/EC legislation to ensure absence of genetically Modified Organisms.**		
Does the Product Contain:	**Yes**	**No**
Soya components (Ingredients/Derivatives/Additives or Flavourings – including Carriers)?		No
Soya Protein Products (Flour, Milk, TVP)		No
Lecithin, Tocopherols		No
Soya Oil		No
Hydrolysed Vegetable Protein, MSG, Flavour enhancers.		No
Soya Sauce		No
Ascorbates, isoflavones, dextrin, xanthan gum.		No
Maize components (Ingredients/Derivatives/ Additives or Flavourings – including Carriers)?		No
Maize flour, Polenta, Maize Bran, Maize Starch		No
Corn Oil		No
Sweetening syrups, glucose, dextrose, fructose.		No
Caramel colours		No
Citrates		No
Other ingredients which could be derived from a GM source, other than Maize or Soya		No
Papaya		No
Potato		No
Tomato		No

Sugar Beet		No
Linseed		No
Canola		No
Sweet Pepper		No
Rice		No

Labelling Information

		Yes	No
Labelling of the Packaging	Packer Name	Y	
	Product Name	Y	
	Variety	Y	
	Grade	Y	
	Packed date/Production date	Y	
	Country of Origin	Y	
	Net Weight	Y	
	Lot Number	Y	

Metal Detection

Is the product metal detected?	Yes

X-Ray Detection

Is the product X ray detected?	Yes

Signed on behalf of the Supplier Company		***Date***	
		Name	
		Position	
Signed on behalf of Barrow Lane & Ballard Ltd.	BARROW, LANE & BALLARD LIMITED	***Date***	04/01/2023
		Name	Ms Ashu Maheshwari
		Position	Technical Manager