Barrow, Lane & Ballard	**Raw Material Specification**	**Product Code:** SFK-100
	Sunflower kernels	
	Authorised by: Mark Gravette	Issue Date: 08/07/2020 Version: 3

Product Details	
Product Name	Sunflower seed kernels
Country of Origin	Bulgaria
Pack Weight	Big bags, 20kg, 25Kg, 22.38kg (50lbs)
Packaging Materials	Polypropylene
Minimum Shelf Life	12 months from the date of production under appropriate storage condition (5°C max)
Storage	Cool and dry, protect from direct sun light
Ingredient Declaration	Sunflower kernels
Allergens	The product is pure kernels of sunflower seeds and does not contain another known allergen substance
Authenticity	The product is not subject to any manipulation on the part of the manufacturing site
Allergen Labelling	N/A

Physical Characteristics		
Appearance	Long-circle seeds, typical sunflower seeds	
Colour	Light grey	
Taste/Flavour	Fresh, nutty, not bitter, or rancid	
Odour/Smell	Fresh, nutty, not bitter, or rancid	
Texture	Free flowing kernels	
Sizing	Count/Ounce 600+/- 7%	
	Target	*Maximum*
Broken Kernels (%)	<10 (smaller than ½ kernel)	10
Discoloured Kernels (%)	<1	
Insect Damage (%)	<1	
Un-hulled kernels (%)	<0.5	
Sclerotinia (%)	Nil	
Foreign material (%)	<0.05	
Metal, Glass, Wood (%)	Nil	

Chemical Parameters		
	Target	*Maximum*
Moisture (%)	6	8
Aflatoxin B1 (µg/kg)		<2
Total Aflatoxin (B1, B2, G1, G2) (µg/kg)		<4
Free fatty Acids	1	1.5
Peroxide value	1	
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	<100,000	
Enterobacteriaceae	<1000	
Coliforms	<1,000	

E. coli	<10	
Yeasts	<10,000	
Moulds	<10,000	
Salmonella	Negative/25g	Negative/25g
Staphylococcus aureus	<100	
Bacillus cereus	<100	
Clostridium perfringens	<100	
Listeria Monocytogenes	Negative/25g	Negative/25g

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	No	No	No	Egg	No	No	No
Tree Nuts - other nuts	No	No	No	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/Dairy/ All types	No	No	No	Lupin	No	No	No
Molluscs	No	No	No	Sulphites inc SO_2	No	No	No

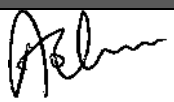
Finished Product Nutritional Standards				
Parameter	**Typical value (Per 100g)**	**Method of Determination**	**Frequency of Testing**	**Source of Information (Laboratory Name and certification details, or Reference Data source)**
Energy kJ	2485		NA	USDA
Energy kcal	594			
Fat (g)	47.4			
Of which saturates	5.2			
Of which mono-unsaturated (g)	9.5			
Of which poly-unsaturated (g)	32.7			
Carbohydrates (g)	4.3			
Of which sugars (g)	5.91			
Fibre (AOAC)	10.5			
Protein (g)	23			

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

Packaging				
Packaging Labelling	Crop	Contract no.	Lot no.	Production Date

Supplier Sign Off			
Signed by Supplier		Date	
		Name	
		Position	

BLB Sign Off on behalf of Supplier			
Signed by Barrow, Lane & Ballard		Date	14/01/2025
		Name	Ashu Maheshwari
		Position	Technical Manager