



HACCP

Author:	Y.T. Yong	Date	16-8-2008
HACCP manager:	M. Keizer	Version	7
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Subject	Product specification sunflowerkernels, bakery		

Authorised by
QA department

BAKERY sunflowerkernels are procured from a selected group of approved suppliers. In some cases we reprocess the goods in our HACCP/BRC approved factory in The Netherlands. This way we guarantee the quality we commit ourself to deliver to our clients.

Physical Characteristics

Colour of seeds	grey - beige
Taste / Smell	typical sunflower
Appearance	oval

FFA	max 2 %
Peroxide	max 5 meq/kg
Humidity	max 7 %
Purity	min 99,9 %

Nutritional value per 100 grams

Energetic value	2390 kJoule
	572 kcal
Carbohydrates	28 %
Protein	± 22 %
Oil content (fat)	± 50 %
Ash	max 5 %
Dietary fiber	10,5 %

Minerals per 100 grams

Calcium, Ca	116 mg
Iron, Fe	6,77 mg
Magnesium, Mg	354 mg
Phosphorus, P	705 mg
Potassium, K	689 mg
Sodium, Na	3 mg
Zinc, Zn	5,06 mg
Copper, Cu	1,75 mg
Manganese, Mn	2,02 mg
Selenium, Se	59,5 mcg

Vitamins per 100 grams

Vitamin C, total ascorbic acid	1,4 mg
Thiamin B1	2,29 mg
Riboflavin B2	0,25 mg
Niacin	4,5 mg
Pantothenic acid	6,7 mg
Vitamin B-6	0,77 mg
Folate, total	227 mcg
Vitamin B-12	0 mcg
Vitamin A, IU	50 IU
Vitamin A, RE	5 mcg_RE
Vitamin E	50,2 mcg_ATE

Shelf life
18 months

Marking on bags

11 digit traceability mark or
Product name, netto weight, lot number, best before

Microbiology

Total plate count
Yeast
Mould
Enterobacteriaceae
Coliforms
Salmonella
Escherichia coli
Staphylococcus aureus
Bacillus cereus
Sulphite reducing anaerobes
Clostridium perfringens
Faecal streptococci
Campylobacter
Listeria monocytogenes

< 500,000	cfu/g
< 5,000	cfu/g
< 5,000	cfu/g
< 10,000	cfu/g
< 5,000	cfu/g
neg /25 gr	
< 10	cfu/g
< 50	cfu/g
< 50	cfu/g
< 50	cfu/g
< 50	cfu/g
< 50	cfu/g
< 50	cfu/g
< 10	cfu/g
< 10	cfu/g

Pesticides

According to EU regulations.

Heavy metals

- Cadmium
- Lead
- Mercury
- Arsenic

< 300	ppb
< 500	ppb
< 30	ppb
< 30	ppb

Toxines

- Aflatoxin B1+B2+G1+G2
- Ochratoxin A

< 4	ppb
< 5	ppb

Packaging

- 25 kgs net paper or poly bags
- 50 lbs net paper or poly bags
- stabilized big bags 500 - 750 kgs net

Storage advise

Store in cool, dry and dark place, preferably below 15°C.

Alba list

	yes	no
cow milk protein		*
lactose		*
chicken egg		*
soya protein		*
soya oil		*
gluten		*
wheat		*
rye		*
beef (-derivates)		*
pork (-derivates)		*
chicken (-derivates)		*
fish		*
crustacean/shellfish		*
corn/maize		*
cocoa		*
yeast		*
pulses		*
nuts		*
nuts oil		*

Alba list

	yes	no
peanuts		*
peanut oil		*
sesame seed		*
sesame oil		*
glutamates		*
sulphite (E220-E227) ***		*
benzoic acids and parabenes (E210-E219) ***		*
azo colours *		*
tatrazine (E102)		*
cinnamon		*
vanillin		*
coriander		*
celery		*
umbelliferae **		*
carrot		*
lupine		*
mustard		*
molluscs		*

* colours E102, E110, E122, E123, E124 and E151

** aniseed, dill, caraway, celery, chervil, coriander, lavas, cumin, myrrh, parsley, fennel.

*** if sulphite or benzoic acid and parabens are present, please note the quantity