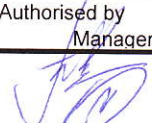
	HACCP			Authorised by	QA	
	Author: Y.T. Yong		Date	13-12-2007		
	HACCP manager: M. Keizer		Version	4		
	Chapter			Page		1
	Subject	Product specification	Refined and winterized sesame oil			

Sesame oil is the fixed oil obtained from the ripe seeds of *Sesamum indicum*. The oil is produced by expression or extraction and subsequent refining in Mexico. After refining it is deodorized, bleached and winterized.

Microbiology

Total plate count	< 1000	cfu/g
Yeast	< 100	cfu/g
Moulds	< 100	cfu/g
Enterobacteriaceae	< 10	cfu/g
Coliforms	Negative	
Salmonella	Neg / 25 g	
Escherichia coli	Negative	
Staphylococcus aureus	Negative	
Bacillus cereus	Negative	

Physical Characteristics

Colour of the oil (5 1/4" cell)	Lovibond max 2,0 R
Cold test (5h30 à 0~C)	clear and bright

Packaging

191 kgs metal drums
920 kgs IBC
Purged with nitrogen

Moisture	max 0,1	%
FFA	max 0,1	%
Peroxide value	max 2,0	meq/kg
Iodine value	104 - 116	
Saponification value	188 - 195	
Unsaponifiable matter	max 1,8	
Relative Density (20°C)	0,915 - 0,923	
Refractive index (20°C)	1,472 - 1,476	

Storage advice

Sealed drums by 13 - 27 °C

Shelf life

18 months

Fatty acid composition

Saturated acid < C16:0	max 0,5	%
Palmitic acid C16:0	7,0 - 12,0	%
Stearic acid C18:0	3,5 - 6,1	%
Oleic acid C18:1	35,0 - 50,0	%
Linoleic acid C18:2	35,0 - 50,0	%
Linolenic acid C18:3	max 1,0	%
Arachide acid C20:0	max 1,0	%
Gadoleic acid C20:1	max 0,5	%
Behenic acid C22:0	max 0,5	%
Erucic acid C22:1	max 0,1	%

Marking on metal drums

Product name, production code, batch number

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		*

* 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