
	<b>HACCP</b>			Authorised by	QA
	Author: Y.T. Yong		Date	13-12-2007	
	HACCP manager: M. Keizer		Version	4	
	Chapter	Page		1	
	Subject	Product specification	toasted sesame oil		

Sesame oil is the fixed oil obtained from the ripe seeds of Sesanum indicum. The oil is produced by toasting and crushing the seeds. This oil is produced in our mexican factory which works under strict quality assurance programmes. They are AIB approved and regularly audited.

#### Physical Characteristics

Colour of the oil	A clear, redish brown liquid
Taste / smell	Typical toasted

Moisture	max 0.2	%
FFA	max 1.5	%
Peroxide value	max 2.0	meq/kg
Iodine value	103 - 116	
Saponification value	188 - 195	
Carbohydrates	< 0,1	%
Protein	0,26	%

#### Fatty acid composition

Palmitic acid C16:0	7.0 - 12.0	%
Palmitoleic acid C16:1	max 0.5	%
Stearic acid C18:0	3.5 - 6.0	%
Oleic acid C18:1	35.0 - 50.0	%
Linoleic acid C18:2	35.0 - 50.0	%
	C18:3	max 1.0
Arachidic acid C20:0	max 1.0	%
Gadoleic C20:1	max 0.5	%
Behenic acid C22:0	max 0.5	%

#### Nutritional value per 100 g

Energetic value	3700	kJoule
	884	kcal
Fat	99,64	g
	- saturated	12,75
	- mono unsaturates	41,80
	- poly unsaturates	44,80
	- cholesterol	< 1.00

#### Minerals per 100 g

Calcium, Ca	15,60	mg
Iron, Fe	1,00	mg
Potassium, K	9,47	mg
Sodium, Na	5,00	mg

#### Vitamins per 100 g

Vitamin C	< 1	mg
Retinol	14	IU
Carotene	< 5	IU

#### 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	

#### Pesticides

Organochlor	< 50	ppb
Organophosphor	< 50	ppb

#### Heavy metals

Cadmium	< 300	ppb
Lead	< 10	ppb
Mercury	< 50	ppb
Arsenic	< 100	ppb

#### Toxins

Aflatoxins B1+B2+G1+G2	< 4	ppb
Ochratoxins A	< 5	ppb

#### Packaging

191 kgs metal drums
920 kgs IBC
Purged with nitrogen

#### Storage advice

Sealed drums by 13 - 27 °C

#### Shelf life

18 months

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, corinder, lavas, cumin, myrrh, parsley, fennel.

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

#### Marking on metal drums

Product name, production code, batch number