RADAD
INTERNATIONAL

SPECIFICATION SHEET FOR NATURAL COCOA LIQUOR (COCOA MASS)

GENERAL INFORMATION	
Product description	Natural Cocoa Liquor (Cocoa Mass) is the product resulting from reducing (by grinding) medium-roasted natural cocoa nibs
Ingredients	100% cocoa nibs. No sugar, milk, flavouring or other additives
Process	Cleaning, roasting, cracking and winnowing, grinding
Origin	Africa
Form supplied	Solid blocks
HS code	1803.10 (cocoa paste, not defatted)
Manufacturer information	Radad International Company Limited, info@radadinternational.com

SENSORY DESCRIPTION	
Colour	Typical of cocoa liquor
Taste	No off flavour
Odour	No off odour

CHEMICAL / PHYSICAL ANALYSIS		
ANALYSIS	**SPECIFICATION**	**REF. METHOD**
Moisture content	Max. 1.5%	IOCCC 1 (1952)
Total fat content on dry matter	52 – 56%	IOCCC 14 (1972)
pH	5.2 – 6.2 ± 0.4	IOCCC 15 (1972)
Fineness (75 µm = 200 mesh)	Min. 99.6% ± 0.2	IOCCC 38 (1990)
Shell (on non-alkalized nib basis)	Max. 1.75%	
Active lipase	Negative	

CONTAMINANTS		
PARAMETER	**SPECIFICATION**	**REF. METHOD**
Aflatoxin B1 + B2 + G1 + G2	< 4 ppb	
Aflatoxin B1	< 2 ppb	

MICROBIOLOGICAL ANALYSIS		
PARAMETER	**SPECIFICATION**	**REF. METHOD**
Total standard plate count	Max. 500 cfu/g	ISO 4833 (2003)
Yeast	Max. 50 cfu/g	ISO 7954 (1987)
Mould	Max. 50 cfu/g	ISO 7952 (1987)
Enterobacteriaceae	Absent	ISO 21528-2 (2004)
E. coli	Absent	ISO 7251 (2005)
Salmonella	Absent in 375 g	ISO 6579 (2004)

PACKAGING, STORAGE AND SHELF LIFE	
Packaging	25 kg corrugated cartons with inner polyethylene bag, complying with international standards
Storage	Max. 25 °C
temperature	Max. 70%
Relative humidity	Clean, cool, dry and odourless environment
Storage conditions	Melt gently, below about 50 °C. Keep away from water
Handling	24 months after production date under recommended storage conditions
Shelf life	

ALLERGEN DECLARATION		
Allergenic foods and derivatives	**Present by nature or added**	**Potential cross-contact**
Celery and products thereof	No	No
Cereals containing gluten and products thereof (barley, rye, oat, wheat such as spelt and khorasan wheat)	No	No
Crustaceans and products thereof	No	No
Eggs and products thereof	No	No
Fish and products thereof	No	No
Lupin and products thereof	No	No
Milk and products thereof (including lactose)	No	No
Molluscs and products thereof	No	No
Mustard and products thereof	No	No
Peanuts and products thereof	No	No
Sesame seeds and products thereof	No	No
Soybean and products thereof	No	No
Tree nuts and products thereof (almonds, Brazil nuts, cashews, hazelnuts, macadamia nuts, pecans, pistachio nuts, walnuts)	No	No
Sulphur dioxide and sulphites (naturally present or added)	No	No

GMO DECLARATION

No genetically modified organisms (GMOs) or transgenic breeding raw cocoa beans were used in the production of this product.