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NATURAL SHEA BUTTER (UNREFINED) SPECIFICATION SHEET

GENERAL INFORMATION	
Product name	Natural Shea Butter, unrefined
Botanical name	*Vitellaria paradoxa* C.F. Gaertn. (syn. *Butyrospermum parkii*)
INCI name	Butyrospermum Parkii (Shea) Butter
Product description	Fat obtained from shea kernels by mechanical or traditional extraction, then filtered. Not refined, bleached or deodorized
Ingredients	100% shea butter. No additives
Origin	West Africa
Grade	Type 1 to ARS SHEA-B:2011 and Codex CXS 325R-2017
Intended use	Cosmetics, pharmaceuticals and direct consumption
HS code	1515.90 (other fixed vegetable fats and oils)
Manufacturer information	Radad International Company Limited, info@radadinternational.com

SENSORY AND QUALITY CHARACTERISTICS		
PARAMETER	**SPECIFICATION**	**REF. METHOD**
Appearance	Soft solid at 20 – 25 °C	Visual
Colour	Ivory to pale yellow	Visual
Odour	Mild, characteristic nutty odour. Not rancid	Sensory
Moisture content	Max. 0.05% m/m	ISO 662
Free fatty acids (as oleic acid)	Max. 1.0% m/m	ISO 660
Peroxide value	Max. 10 meq O_2/kg	ISO 3960
Insoluble impurities	Max. 0.09% m/m	ISO 663
Volatile matter at 105 °C	< 0.2% m/m	ISO 662
Soap content	< 0.005% m/m	BS 684-2.5

IDENTITY CHARACTERISTICS		
PARAMETER	**SPECIFICATION**	**REF. METHOD**
Melting point	32 – 40 °C	ISO 6321
Saponification value	160 – 190 mg KOH/g	ISO 3657
Iodine value (Wijs)	30 – 75 g I_2/100 g	ISO 3961
Unsaponifiable matter	1 – 19% m/m	ISO 3596
Relative density at 40 °C	0.89 – 0.93	IUPAC 2.101
Refractive index at 44 °C	1.4620 – 1.4650	ISO 6320

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FATTY ACID COMPOSITION (% OF TOTAL FATTY ACIDS, ISO 5508)	
FATTY ACID	**SPECIFICATION**
Oleic acid (C18:1)	36 – 62%
Stearic acid (C18:0)	25 – 50%
Palmitic acid (C16:0)	2 – 10%
Linoleic acid (C18:2)	1 – 11%
Arachidic acid (C20:0)	< 3.5%
Lauric acid (C12:0)	< 1%
Linolenic acid (C18:3)	< 1%
Myristic acid (C14:0)	< 0.7%
Palmitoleic acid (C16:1)	< 0.3%

CONTAMINANTS AND MICROBIOLOGY		
PARAMETER	**SPECIFICATION**	**REF. METHOD**
Lead (Pb)	Max. 0.1 mg/kg	ISO 12193 AOAC
Arsenic (As)	Max. 0.1 mg/kg	952.13 ISO 8294
Iron (Fe)	Max. 5.0 mg/kg	ISO 8294
Copper (Cu)	Max. 0.4 mg/kg	
Pesticide residues	Within Codex maximum residue limits	
Microbiology	Free from pathogenic microorganisms	

PACKAGING, STORAGE AND HANDLING	
Packaging	Clean, airtight, sealed and tamper-evident food-grade containers
Labelling	Product name, net content, lot number, date of manufacture and best-before date on each container
Storage conditions	Cool, dry place away from direct sunlight and strong odours
Handling	If the butter turns grainy, melt it fully and cool it quickly to restore a smooth texture

ALLERGEN INFORMATION	
EU allergens	Shea nut is not among the 14 allergens listed in Annex II of EU Regulation 1169/2011

GMO DECLARATION

No genetically modified organisms (GMOs) were used in the production of this product. Shea butter is obtained from the kernels of wild and parkland shea trees.

