

## PRODUCT SPECIFICATION

<b>INCI/Botanical Name</b>	<b>GARCINIA INDICA</b>	<b>Date of Expiry</b>	02 Years
<b>Product Name</b>	Kokum Butter	<b>Extraction Method</b>	Cold Press
<b>Report No.</b>	GI/GV/15-145/23	<b>Extraction Ratio</b>	---
<b>Parts of Plant</b>	Seed	<b>Origin</b>	India
<b>Cas No</b>	68956-68-3	<b>HSN Code</b>	33049990
TEST		SPECIFICATION	
METHOD			
<b>A. Physical Parameters:</b>			
<b>Appearance</b>	Semi solid	Visual	
<b>Colour ( Gardener)</b>	NMT 6.0 - off white to pale yellow color	Visual	
<b>Odour</b>	Typical smell of kokum butter	Organoleptic	
<b>Taste</b>	Characteristic	Organoleptic	
<b>Acid Value</b>	NMT 10.0% mg KOH/g	USP 731	
<b>Solubility</b>	Soluble in cosmetic ester & fixed oil. Insoluble in water	USP 516	
<b>Melting Point (<sup>0</sup>C)</b>	Between 38.0 <sup>0</sup> C to 40.0 <sup>0</sup> C	USP	
<b>Iodine Value</b>	Between 40.0 to 55.0 gI <sub>2</sub> /100g	USP	
<b>Refractive Index @ 40<sup>0</sup>C</b>	1.456-1.457	USP	
<b>Unsaponifiable Matter</b>	NMT 1.0% m/m	USP	
<b>Peroxide Value</b>	MMT 5.0 Meq O <sub>2</sub> /Kg	USP	
<b>Purity</b>	Material is 100% natural and organic as confirmed by our chemist expert and tested on the basis of our standard	USP	
<b>B. Fatty Acid Composition:</b>			
<b>Palmitic Acid</b>	<b>Between 3.0% to 10.0%</b>	<b>Gas Liquid Chromatograph</b>	
<b>Stearic Acid</b>	<b>Between 30.0% to 60.0%</b>	<b>Gas Liquid Chromatograph</b>	
<b>Oleic Acid</b>	<b>Between 30.0% to 65.0%</b>	<b>Gas Liquid Chromatograph</b>	
<b>Linoleic Acid</b>	<b>Between 1.0% to 10.0%</b>	<b>Gas Liquid Chromatograph</b>	
<b>Myristic Acid</b>	<b>Between 0.1% to 1.0%</b>	<b>Gas Liquid Chromatograph</b>	
<b>C. Heavy Metals:</b>			
<b>Lead (PB)</b>	NMT 3.0 ppm	ICP-MS	
<b>Arsenic (AS)</b>	NMT 1.0 ppm	ICP-MS	
<b>Cadmium (CD)</b>	NMT 1.0 ppm	ICP-MS	
<b>Mercury (HG)</b>	NMT 0.5 ppm	ICP-MS	
<b>D. Microbiological Test:</b>			
<b>Total Plate Count</b>	NMT 100 cfu/g	USP 2021	
<b>Total Yeast &amp; Mold Count</b>	NMT 10 cfu/g	USP 2021	
<b>Escherichia coli</b>	Absent	USP 2022	
<b>Salmonella</b>	Absent	USP 2022	
<b>Staphylococcus Aureus</b>	Absent	USP 2022	
<b>Pseudomonas Aeruginosa</b>	Absent	USP 2022	
<b>E. Other:</b>			
Standard Packing: 25 Kg in single HDPE Container.			
The above material complies with in-house specifications.			
Store in a cool and dry place away from sunlight and heat. The preferred storage is below 25° C.			
The Product Is of Herbal Origin. There May Be Minor Color Different Due to Geographical and Seasonal Variation of the Plant Material.			

**Note: This Is Computer Generated Specification & Does Not Require A Physical Signature.**

