



## CERTIFICATION OF ANALYSIS (COA)

### VIRGIN TUCUMÃ BUTTER

**Scientific name:** *Astrocaryum vulgare*

**Source of Raw Material:** Amazonian Rainforest /

Brazil

**Batch Number:** 4488603

**Best Before End:** November 2024

**Part Used of the plant:** Kernel

**Production Process:** Cold Extraction

**Preservatives:** Absent

**Solvent Extraction:** Absent

**Traceability:** guaranteed

**Origin of the Vegetable Drugs:** Wild crafted

ITEM	UNIT	SPECIFICATION RANGE	TEST METHOD	ANALYTICAL RESULTS
PHYSICOCHEMICAL ANALYSIS				
Appearance (25°C)	----	Solid	Organoleptic	In accordance
Color	----	White to beige	Organoleptic	In accordance
Odor	----	Characteristic	Organoleptic	In accordance
Acid value	mg KOH/g	< 20,0	AOCS CD3D - 63	2,5
Peroxide value	meq O <sub>2</sub> /kg	< 10,0	AOCS CD8 – 53	0,8
Iodine value	gI <sub>2</sub> /100g	10 – 30	AOCS TG2A – 64	19,7
Saponification value	mg KOH/g	230 – 250	AOCS CD3 - 25	237,2
Density (25°C)	g/mL	0,967 – 0,981	AOCS CC 10C - 95	0,9689
Refractive Index (40°C)	---	1.4562 – 1,5612	AOCS CC 7 – 25	1,5287
Unsaponifiable matter (bioactives)	%	1,4	AOCS CA 6A - 40	In accordance
Melting point	°C	30 - 32	AOCS CC 1 – 25	In accordance
MICROBIOLOGICAL ANALYSIS				
Total bacteria	cfu/mL	< 10 <sup>3</sup>	NF ISO 4833	Absent
Fungi and Yeasts	cfu/mL	< 2x10 <sup>2</sup>	NF V 08-036	Absent
<b>RESULTS: (X) APPROVED ( ) DISAPPROVED</b>				

**SAFETY HEALTH:** product harmless, for cosmetic use only, not suited for human consumption **STORAGE:** should be stored tightly sealed, protected from light and heat.

FATTY ACID COMPOSITION		
Caprilic Acid	%	0,5 – 1,5
Capric Acid	%	1,0 – 2,0
Lauric Acid	%	44,0 – 55,0
Miristic Acid	%	22,0 – 30,0
Palmitic Acid	%	5,0 – 10,0
Stearic Acid	%	10,0 – 15,0
Oleic Acid	%	8,0 – 10,0
Linoleic Acid	%	2,0 – 5,0
Saturated	%	97
Unsaturated	%	3



## **DECLARATION FOR CMR SUBSTANCES**

**WE HEREBY CERTIFY THAT THE TUCUMÃ BUTTER DOES NOT CONTAIN ANY KIND OF CARCINOGENIC, MUTAGENIC AND REPROTOXIC SUBSTANCES OF CATEGORY 1, 2 OR 3 ACCORDING TO REGULATION (CE) No. 1272/2008.**

15<sup>th</sup> January 2022

## ALLERGEN FREE CERTIFICATE

**PRODUCT:** Tucumã Butter (virgin cold pressed)

7th Amendment to the European Cosmetics Directive 2003/15/EC of 27 February 2003

The 26 substances identified as potential allergens must appear clear in the list of ingredients of a finished product, when their concentration exceeds 0.001% in leave-on products and 0.01% in rinse-off products.

Substance (INCI name)	CAS number	Presence	Max. Concentration
Amyl cinnamal	122-40-7	No	Absent
Benzyl alcohol	100-51-6	No	Absent
Cinnamyl alcohol	104-54-1	No	Absent
Citral	5392-40-5	No	Absent
Eugenol	97-53-0	No	Absent
Hydroxy-citronellal	107-75-5	No	Absent
Isoeugenol	97-54-1	No	Absent
Amylcin-namyl-alcohol	101-85-9	No	Absent
Benzyl salicylate	118-58-1	No	Absent
Cinnamal	104-55-2	No	Absent
Coumarin	91-64-5	No	Absent
Geraniol	106-24-1	No	Absent
<i>Hydroxy-methylpentylcyclohexenecarboxaldehyd</i>	31906-04-4	No	Absent
Anisyl alcohol	105-13-5	No	Absent
Benzyl cinnamate	103-41-3	No	Absent
Farnesol	4602-84-0	No	Absent
<i>2-(4-tert-Butylbenzyl) propionald-hyd</i>	80-54-6	No	Absent
Linalool	78-70-6	No	Absent
Benzyl benzoate	120-51-4	No	Absent
Citronellol	106-22-9	No	Absent
<i>Hexyl cinnam-aldehyd</i>	101-86-0	No	Absent
<i>d-Limonene</i>	5989-27-5	No	Absent
<i>Methyl heptin carbonate</i>	111-12-6	No	Absent
<i>3-Methyl-4-(2,6,6-tri-methyl-2-cyclohexen-1-yl)-3-buten-2-one</i>	127-51-5	No	Absent
Oak moss extract (Evernia prunastri)	90028-68-5	No	Absent
Treemoss extract (Evernia furfuracea)	900028-67-4	No	Absent

On the basis of our best knowledge, the company AMAZONOIL concludes that there are no presence of any allergenic substance in its product.

15<sup>th</sup> January 2022

## FLOWCHART FOR THE PROCESSING OF COLD PRESSED TUCUMÃ SEED BUTTER

### Ingredients: TUCUMÃ SEEDS 100%

RECEPTION OF 100% TUCUMÃ SEEDS AND REGISTRATION OF  
ORIGIN at the processing site in Ananindeua/Pará, North Brazil

VERIFICATION OF SEED QUALITY

DRYING OF THE SEEDS (< 60°C)

SEPERATING DIFFERENT SEEDS SIZES AND BREAKING THE HARD SHELL

SEPERATING MANUALLY KERNEL FROM HARD SHELL

GRINDING OF KERNELS

COLD PRESSING

FILTERING BY USING FILTER PRESS.

STORAGE OF TUCUMÃ SEED BUTTER IN CLOSED CONTAINER

11/01/18



**Free-TSE/BSE/GMO STATEMENT**  
**for**  
**Virgin Tucumã Butter (*Astrocaryum vulgare*)**

Tucumã Butter is manufactured from sterilized seeds and does not contain any substances derived from animal origin. Moreover this product is not derived from specific risk material as defined in European Commission Decision 97/534/EC. The manufacturing process does not use any ingredient of animal origin or does come in contact with animal products during storage and transportation.

We further declare that our Tucumã Butter is Dioxin Free. The manufactured Tucumã Butter is free from Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE) and is not derived from Genetically Modified Organisms (GMO).

15<sup>th</sup> January 2022

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product:	VIRGIN TUCUMÃ BUTTER ( <i>Astrocaryum vulgare</i> )
Product ID:	005
Production process:	Cold extraction
Origin:	Amazonian Rainforest, wildcrafted
Product use:	Personal Care Formulations
Suppliers name:	Madar Corporation Limited
Suppliers address:	19 - 20 Sandleheath Industrial Estate, Fordingbridge, SP6 1PA
Telephone:	01425 655 555
Date issued:	14 <sup>th</sup> of January 2022

## SECTION 2 – HAZARDOUS IDENTIFICATION

Classification according to EC regulation 1272/2008 (CLP):

This substance is not classified as hazardous according to regulation (EC) 1272/2008 [CLP].

Classification according to Directive 67/548/EEC or 1999/45/EC

This preparation is not classified as dangerous according to 1999/45/EC.

### GHS LABEL ELEMENTS

Classification according to EC regulation 1272/2008 (CLP):

<b>Signal word:</b>	Not applicable
2.1. Hazard Pictograms	Not applicable
2.2. Hazard Statements	Not applicable
2.3. Safety Precautions	
2.3.1. General Precautionary statements	P101: If medical advice is needed, have product container or label at hand P102: Keep out of reach of children P103: Read label before use
2.3.2. Prevention precautionary statements	P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ according to your area. P302 + P352: IF ON SKIN: Wash with plenty of water and soap P302: Call a POISON CENTER or doctor/physician if you feel unwell P331: Do NOT induce vomiting. P321: Specific treatment – see on this label P330: Rinse mouth P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash it before reuse. P405: Store locked up.

	P501: Dispose of contents/container in accordance with local/ regional/ national/ international regulations
<b>Labelling (67/548/EEC or 1999/45/EC)</b>	
2.1. Hazard Symbol	Not applicable
2.2. Risk Phrases	Not applicable
2.3. Safety Phrases	S02 - Keep out of the reach of children. S23 - Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer). S37- Wear suitable gloves. S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

## SECTION 3 – COMPOSITION /INGREDIENT INFORMATION

Substance or mixture:	Substance
Ingredients:	Tucumã seeds
<b>INCI name</b>	<i>Astrocaryum vulgare</i> seed butter
Hazardous Components:	Not a hazardous material under the Department of Labor definitions. Is Generally Recognized As Safe (GRAS) under the Food, Drug and Cosmetic Act According to Classification 1999/45/EC not classified as hazardous According to Classification 1272/2208 not classified as hazardous
<b>REACH status (EC 1907/2006)</b>	This product is according to Annex 5, §9 exempted from the registration
CAS #:	2187449-53-0
EINECS #:	N/A

## SECTION 4 – First Aid Measures

Description of necessary measures, subdivided according to the different routes of exposure	
Eyes:	Flush eyes with plenty of water or eye wash solution for at least 15 minutes - get medical attention if irritation persists
Skin:	Wash with soap and water - get medical attention if irritation persists
Ingestion:	If ingested in large amounts can cause nausea, vomiting and diarrhea
Inhalation:	Under mist conditions, no short term inhalation limits
Acute:	Not known

## SECTION 5 – FIRE FIGHTING MEASURES

Flash point and Method:	Not determined
Autoignition:	Not determined
Boiling point:	Not determined
Extinguishing Media:	CO2, Dry Chemical, Foam
Special Fire Fighting Procedures:	Class B Fire; Application of water to burning oil can cause splattering; oil will float; use air supplied equipment for fighting interior fires.
Unusual Fire & Explosion Hazards:	
Explosion Hazard:	None



Possible risk of auto ignition/spontaneous combustion under high temperature/closed conditions if material is absorbed on various matrices and oxygen present.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

If material is spilled:	No specific hazards: material is non-hazardous; if in mist form and levels are above 15g/m <sup>3</sup> (total), a dust mask and goggles are required
Personal Precautions:	
Respiratory Protection:	Not normally needed
Ventilation:	Intermittent clean air exchanges recommended, but not required
Protection gloves:	Not normally needed
Eye Protection:	Not normally needed
Environmental precautions:	Dispose of in accordance with local, state and federal regulations

## SECTION 7 – HANDLING & STORAGE

Handling:	No special requirements
Storage requirements for storage areas and containers:	Store in a cool, dry location, in a sealed container, don't expose to direct sunlight, keep storing temperature below 77°F (25°C)
Shelf life:	24 months, should be stored tightly sealed, protected from light and heat

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:	Safety Glasses
Skin Protection:	N/A
Respiratory Protection:	Not needed under normal conditions of use
Ventilation:	Area should be well ventilated
Special:	N/A
Mechanical:	N/A
Other Protective Clothing:	None
Work/Hygienic Practices:	Normal work and hygiene practices for handling non-hazardous liquid material

## SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	White to beige
Odour:	Characteristic
Specific density	0,967
Solubility in water:	Insoluble
Liquid surface tension:	25 dynes/cm @ 20°C
Melting point:	30 - 32° C
Vapor pressure (mm Hg):	N/A
Evaporation rate:	Greater than 1
Water reactive:	No

## SECTION 10 – STABILITY & REACTIVITY

Stability:	Generally stable, becomes rancid on extended exposure to air, avoid strong oxidizers
Conditions to avoid:	N/A
Incompatibility:	None
Hazardous Decomposition Products	N/A
Hazardous Polymerization:	Will not occur

## SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity:	Acute effects are not expected after exposure to the product. DL50 oral: not determined DL50 dermal: not determined CL50: not determined
Skin irritation:	May cause mild skin irritation
Eye irritation:	May cause mild irritation to eyes
Respiratory or skin sensitization	not expected sensitizing effects after exposure to the product
Germ cell mutagenicity	not expected that the product presents mutagenic potential
Carcinogenicity	Not expected that the product has carcinogenic potential
Reproductive toxicity	Not expected that the product present to potential toxicity reproduction
Systemic target organ toxicity - single exposure	Systemic effects are not expected after a single exposure to the product
Systemic target organ toxicity – repeated exposure	systemic effects are not expected after repeated and prolonged exposure to the product
Aspiration Hazard	not determined

## SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Product does not present risk
Persistence and degradability	Good degradability
Bioaccumulative potential	No bioaccumulation
Mobility in Soil	Well-tolerated
Other Adverse Effects	Not determined

## SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method(s):	Physically clean up, check local landfill disposal requirements
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## SECTION 14 – TRANSPORTATION INFORMATION

DOT classification:	Not a DOT controlled material (USA); ship as raw material for cosmetically use, not to be loaded with incompatible materials including poisons.
Class/Divison:	Not restricted

Proper shipping name:	N/A
Label:	None
Packing group:	N/A
ID number:	N/A
Hazard:	N/A

## SECTION 15 – REGULATORY INFORMATION

Immediate (Acute) Health	N
Sudden Release of Pressure	N
Delayed (Chronic) Health	N
Reactivity	N
Fire	N
State Right-To-Know (RTK) Information: Check with specific state authorities since regulations vary within the states.	

## SECTION 16 – ADDITIONAL INFORMATION

To the best of our knowledge, the information contained herein is accurate and is provided in good faith to comply with applicable federal and state laws. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution, although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

NA = Not Applicable ND = Not Determined

## TECHNICAL DATA SHEET: VIRGIN TUCUMÃ BUTTER

	<b>Production Process:</b> Cold Extraction
<b>Scientific name:</b> <i>Astrocaryum vulgare</i>	<b>Preservatives:</b> Absent
<b>Source of Raw Material:</b> Amazonian Rainforest / Brazil	<b>Solvent Extraction:</b> Absent
<b>Used part of the plant:</b> Kernel	<b>Traceability:</b> Guaranteed
<b>Origin of the Vegetable Drug:</b> Wildcrafted	<b>Shelf life:</b> 24 Months

CHARACTERISTIC	UNIT	SPECIFICATION
Appearance (25°C)	----	Solid
Color	----	White to beige
Odor	----	Characteristic
Acid value	mg KOH/g	< 20,0
Peroxide value	meq O <sub>2</sub> /Kg	< 10,0
Iodine value	gl2/100g	10 – 30
Saponification value	mg KOH/g	230 – 250
Density (25°C)	g/mL	0,967 – 0,981
Refractive Index (40°C)	----	1.4562 – 1,5612
Unsaponifiable matter (bioactives)	%	1,4
Melting point	°C	30 - 32
FATTY ACID COMPOSITION		
Caprilic Acid	%	0,5 – 1,5
Capric Acid	%	1,0 – 2,0
Lauric Acid	%	44,0 – 55,0
Myristic Acid	%	22,0 – 30,0
Palmitic Acid	%	5,0 – 10,0
Stearic Acid	%	10,0 – 15,0
Oleic Acid	%	8,0 – 10,0
Linoleic Acid	%	2,0 – 5,0
Saturated	%	88
Unsaturated	%	12
MICROBIOLOGY		
Total bacteria	cfu/mL	< 10 <sup>3</sup>
Fungi and Yeasts	cfu/mL	< 2x10 <sup>2</sup>

**SAFETY HEALTH:** Product harmless, for cosmetic use only, not suited for human consumption.

**STORAGE:** Should be stored tightly sealed, protected from light and heat.

**NOTE:** Please follow the storage guidelines. If not, the physicochemical properties of this natural product may vary, thus reducing its shelf life. After opening the package, consume the product as soon as possible. Contact with oxygen generates an oxidative process, decreasing the product's shelf life.

Last revision 18/04/2022



## VEGAN CERTIFICATE FOR TUCUMÃ BUTTER

We hereby certify that the TUCUMÃ BUTTER (*Astrocaryum vulgare*) **DOES NOT** contain ingredients of meat, fish, fowl, animal by-products (including silk or dyes from insects), eggs or egg products, milk or milk products, honey or honey bee products, or be clarified or finished with any animal products.

Futhermore, Tucumã Butter did not get in contact with animal products during manufacturing process.

15<sup>th</sup> January 2022