



Technical Data Sheet: Alomac®

Product Name: Alomac®
Botanical Source: *Aloe macroclada* (Baker)
Common Name: Vahona
Plant Part Used: Inner Leaf Gel (Fillet)
Origin: Highlands of Madagascar

1. Product Description

Alomac® is a high-purity, dried powder or chip form of *Aloe macroclada* gel, native to the Madagascar highlands. The product is manufactured using a manual extraction process that preserves the high molecular weight polysaccharides unique to this species. It is processed without the use of UV light or digestive enzymes to maintain the integrity of the natural botanical profile.

2. Physical & Chemical Specifications

Parameter	Specification	Method
Appearance	Light beige to brown chips or powder	Visual
Odor	Characteristic, mild botanical	Olfactory
Moisture Content	< 4% w/w	AOAC 930.15 ¹
Solubility	Mostly soluble in water ²	Internal
Polysaccharides	20% ±5% w/w	HPLC
Aloin Content	< 5 ppm ³	HPLC
Preservatives	0.5% Citric Acid (Processing aid)	N/A

1- AOAC 930.15 modified specifically for Alomac

2- pectins/lignins (not digested) are milled to ultrafine particles which suspend in water

3- recent batches <1ppm, showing consistency before changing specification

3. Microbial Analysis

Test	Limit	Method
Total Aerobic Microbial Count	< 10,000 cfu/g	USP/NF <61>
Total Yeast & Mold	< 1,000 cfu/g	USP/NF <61>
Escherichia coli	Negative	USP/NF <62>
Salmonella spp.	Negative	USP/NF <62>
Staphylococcus aureus	Negative	USP/NF <62>



4. Heavy Metals

Metal	Limit	Method
Lead (Pb)	< 0.001 ppm	ICP-MS
Mercury (Hg)	< 0.5 ppm	ICP-MS
Cadmium (Cd)	< 0.001 ppm	ICP-MS
Arsenic (As)	< 0.01 ppm	ICP-MS

5. Processing & Manufacturing

- **Sterilization:** Leaves undergo a hypochlorite bath prior to extraction.
- **Extraction:** Manual filleting of the inner leaf gel to minimize aloin inclusion.
- **Drying Method:** Refractance Window Drying (RWD). This method minimizes thermal degradation and preserves the biological activity of the gel.
- **Exclusions:** No enzymatic digestion of lignins is performed. No UV light is used during sterilization or processing.
- **Clean Label:** Free from silicon dioxide, magnesium stearate, and synthetic fillers.

6. Regulatory & Compliance

- **US FDA:** Accepted as a New Dietary Ingredient (NDI).
- **EU EMA:** Approved as safe by the European Medicines Agency.
- **Certifications:** Manufactured in a GMP and FDA-registered facility.
- **Dietary Status:** Vegan, Gluten-Free, Non-GMO, Kosher/Halal compliant.
- **CITES:** Export of *Aloe macroclada* requires a CITES permit, which is provided with every shipment.

7. Storage & Stability

- **Shelf Life:** 5 years from date of manufacture when stored in original sealed packaging.
- **Storage Conditions:** Store in a cool, dry place. Keep container tightly closed and protected from light and moisture.
- **Packaging:** Vacuum-sealed in thick-walled polypropylene bags (typically 1.5kg units).

Manufacturer: Mioty Voajanahary

Contact: John W. James, Owner and General Manager

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Disclaimer: This information is provided for business-to-business (B2B) use and is not intended for the final consumer. It is the responsibility of the formulator to ensure the final product meets all regional regulatory requirements.