



DE VILLIERS ALOE EXPORTERS PTY (LTD)

Importers and Exporters of Aloe Products Since 1956

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TECHNICAL DATA SHEET

Granulated Aloe ferox Juice Crystals (Bitter Aloe)

Document No.	TDS-AF-001	Issue Date	19 June 2026
Revision	01	Reference COA	46298

1. Product Identification

Product Name	Granulated Aloe ferox Juice Crystals
Botanical Source	Aloe ferox Mill. (leaf exudate, dehydrated)
Common Names	Bitter aloe, Cape aloe, aloe ferox sap crystals
Plant Part Used	Leaf exudate (sap), tapped from cut leaves
Processing Method	Dehydration of harvested sap to a solid crystalline form
Appearance	Dark brown to black, glass-like irregular granules/lumps
Origin	Eastern Cape, South Africa
CITES Status	Aloe ferox is listed under CITES Appendix II

2. Verified Quality Parameters

The results below are extracted directly from independent laboratory testing performed per Laboratory testing protocols, dated 17 June 2026.

Parameter	Result	Test Method	Date Tested
Moisture content (% m/m)	4.65 %	WIN-VM-180	2026-06-10
Total Aloin (A+B), % m/m	12.36 ± 0.02 %	WIN-VM-130 (HPLC-UV)	2026-06-05
Aloin B, % m/m	5.91 ± 0.01 %	WIN-VM-130 (HPLC-UV)	2026-06-05
Aloin A, % m/m	6.46 ± 0.01 %	WIN-VM-130 (HPLC-UV)	2026-06-05
Arsenic (As)	0.02 mg/kg	WIN-VM-085 (ICP-MS)	2026-06-12



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Cadmium (Cd)	< LOQ (0.01 mg/kg)	WIN-VM-085 (ICP-MS)	2026-06-12
Lead (Pb)	0.05 mg/kg	WIN-VM-085 (ICP-MS)	2026-06-12
Mercury (Hg)	Not Detected	VM-050 (ICP-MS)	2026-06-12

Limit of quantification: Aloin 0.005% (m/m) · As, Cd, Pb, Hg: 0.01 mg/kg each. Results relate solely to Batch No. 20267 as received and tested; they do not extend to untested batches.

3. Composition

Granulated Aloe ferox juice crystals consist of the concentrated, dehydrated leaf exudate of Aloe ferox Mill. The principal active constituents are the anthraquinone glycosides known collectively as aloin (aloin A and aloin B isomers), together with naturally occurring resins, chromones, and trace minerals inherent to the sap.

No solvents, carriers, or processing aids are added during dehydration. The product contains no Aloe vera or other aloe species material.

4. Physical & Storage Properties

Physical Form	Solid, irregular granules/lumps
Colour	Dark brown to black
Odour	Characteristic, bitter aromatic
Solubility	Partially soluble in water; soluble in alkaline aqueous solutions and alcohol
Hygroscopicity	Hygroscopic — absorbs moisture from air if not sealed
Storage	Store in a cool, dry place in sealed, food-grade lined containers, away from direct sunlight
Shelf Life	24 months from date of manufacture when stored as specified, in original sealed packaging
Packaging	Food-grade lined fibre drums or bulk bags, net mass as per purchase order

5. Applications

- Cosmetic raw material (bitter agent, botanical extract)
- Traditional and complementary medicine preparations
- Food and beverage bittering agent, subject to destination market regulatory approval
- Further processing into refined extracts and tinctures



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6. Regulatory Notes

Aloe ferox is listed under CITES Appendix II. Export of this product from South Africa requires the relevant CITES export documentation issued by the Department of Environmental Affairs, together with applicable phytosanitary and commercial export documentation for the destination market.

This product is derived exclusively from Aloe ferox. It does not contain, and has not been blended with, Aloe vera or any other aloe species.

7. Certificate of Analysis

A Certificate of Analysis is issued with every batch shipped, confirming compliance with the parameters tested for that specific batch. Customers requiring additional parameter testing should specify this at the time of order.

This Technical Data Sheet is issued for informational purposes and reflects verified laboratory data current as of the issue date above. De Villiers Aloe Exporters Pty (Ltd) reserves the right to update specifications as further batch data becomes available.