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# TECHNICAL DATA SHEET (TDS)

**Product: TriAct™ Kigelia | Material code: FG-TriAct-Kigelia-001**

Revision date: 16 September 2026 | Version: 1.0

## 1. Product description

TriAct™ Kigelia is a cosmetic ingredient comprising of a propanediol water extraction of the Kigelia Africana fruit. The ingredient is intended for incorporation into cosmetic and personal care formulations.

Country of Origin: South Africa

## 2. Intended use

TriAct™ Kigelia is intended for use in cosmetic and personal care formulations to support the appearance and feel of firmer, more elastic-looking skin. Not for ingestion.

## 3. Composition (w/w)

| INCI name | Purpose | CAS no. | % w/w |
|---|---|---|---|
| Propanediol | Solvent / Emollient | 504-63-2 / 26264-14-2 | 70-80 |
| Aqua | Solvent | 7732-18-5 | 15-20 |
| Kigelia Africana Fruit Extract | Active | 223749-33-5 | 10-15 |

## 4. Technical properties

| Parameter | Method | Typical value |
|---|---|---|
| Appearance @ 20 °C | Visual QC-SOP-001 | Dark brown liquid |
| Colour | Visual QC-SOP-001 | Brown |
| Odour | Organoleptic QX-SOP-001 | Mild characteristically botanical, slightly earthy, herbaceous |
| pH (25 °C) | pH meter QC-SOP-004 | 4.5-6.5 |
| Relative density @ (g/mL) | Pycnometer QC-SOP-002 | 1.00-1.20 |
| HPLC, quantitative determination | Validated internal HPLC method | Total phytosterols<br>Total saponins<br>Verminoside |
| Flash point | ASTM D93 (adapted) | >100°C |
| *Microbiological testing | ISO 17516:2014 | TAMC $\leq 10^2$ CFU/g; TYMC $\leq 10^2$ CFU/g; specified pathogens absent |

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| | | |
|---|---|---|
| Chemical composition mg/mL:<br>Total phytosterols<br>Total saponins<br>Verminoside | GC MS | Not less than 0.25mg/ml |
| *Preservative efficacy testing | ISO 11930:2019 | Pass |

**5. Quality / release information**

Each batch of TriAct™ Kigelia supplied with a Certificate of Analysis (CoA) indicating batch identification, traceability, and release results.

| Release criteria (routine on each batch) | Method | Acceptance |
|---|---|---|
| Appearance | Visual QC-SOP-001 | Dark brown liquid |
| Colour | Visual QC-SOP-001 | Brown |
| Odour | Organoleptic QC-SOP-001 | Mild characteristically botanical, slightly earthy, herbaceous |
| Relative density @ 20°C (g/mL) | Pycnometer QC-SOP-002 | 1.00-1.20 |
| pH @ 25°C | pH meter QC-SOP-004 | 4.5-6.5 |
| *Microbiological | ISO 17516:2014 | TAMC $\leq 10^3$ CFU/g; TYMC $\leq 10^2$ CFU/g; specified pathogens absent |

*Note: TriAct™ Kigelia contains an aqueous phase and includes a preservative system*

**6. Handling and storage**

Store below 25˚ C. Keep container tightly closed and away from direct sunlight. Spills may create a slip hazard.

**7. Shelf life**

The shelf life in sealed original packaging and under normal storage conditions is 24 months after manufacturing date.

**8. Packaging**

Packaging: As supplied by Velden Botanicals S.A. (e.g., HDPE or suitably lined containers). Available options and pack sizes on request.

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**9. Safety and regulatory reference**

TriAct™ Kigelia is non-sensitizing under the tested conditions and non-toxic for its intended cosmetic application. For other safety, hazard communication and transport classification, refer to the corresponding Safety Data Sheet (SDS) for this material code.

**10. Efficacy test results**

On request.

**11. Processing method**

TriAct™ Kigelia is produced from raw materials of strictly vegetable origin. The extract is obtained through maceration, followed by filtration. No preservatives or production additives are used.

**12. TDS disclaimer**

This Technical Data Sheet is provided for product identification and technical guidance only. Typical values are not specifications unless explicitly stated. Product performance and suitability depend on the customer's formulation, processing conditions and intended use. Users remain responsible for compliance with applicable laws and regulations.

**13. Change Control Policy**

Velden operates a documented Change Control system designed to uphold product quality, safety, performance, and compliance with regulatory requirements. To ensure transparency and continuity, Velden will provide at least 60 days' written notice before implementing any change that could reasonably affect the product's identity, specifications, quality attributes, safety, regulatory status, or intended performance.

Changes subject to notification include, but are not limited to, modifications involving raw material source or supplier, country of origin, formulation or active standardization range, manufacturing site, equipment, or process, critical process parameters, specifications or test methods, packaging components in direct contact with the product, labelling or INCI declarations, and storage or transportation conditions.

All proposed changes undergo formal risk assessment and, where applicable, are supported by validation data. Updated quality and regulatory documentation will be provided as necessary. In cases where urgent changes are required to address safety, legal, or supply continuity risks, Velden will notify customers as soon as practicable and provide supporting justification and mitigation actions.

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