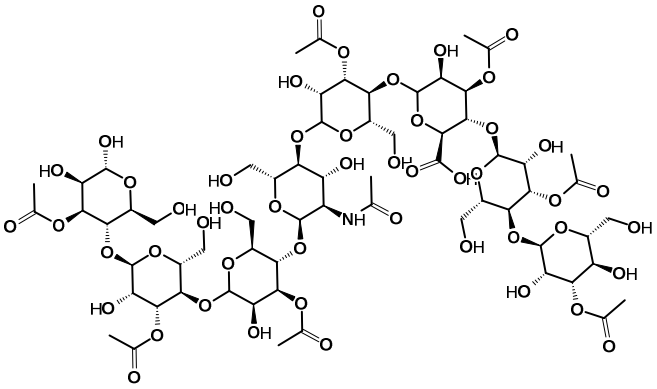
Aloe Vera Raw Materials – Reliable Quality Assessment

Background

Aloe Vera is widely used in wellness products, cosmetics and food supplements. Due to natural variability and degradation processes, its composition can change significantly. Because Aloe Vera is frequently adulterated, reliable analytical quality assessment is essential for product authentication and quality control.



Schematic representation of acemannan

What We Analyze

Routine Analysis

All key quality markers quantified simultaneously in a single measurement:

- ✓ **Aloverose** (acemannan) – the value adding compound
- ✓ **Sugars & organic acids:** Glucose, malic acid
- ✓ **Degradation markers:** Lactic acid
- ✓ **Whole leaf markers:** Isocitric acid, isocitric lactone
- ✓ **Formulation-related components:** Maltodextrin

Extended Analysis

Depending on your analytical requirements, the routine analysis can be extended to include:

- ✓ **Additional organic acids:** – Citric acid, acetic acid, fumaric acid, succinic acid
- ✓ **Minerals:** Magnesium, calcium
- ✓ **Preservatives:** Potassium sorbate, sodium benzoate

Note on cosmetic formulations: Routine quantification of small amounts of Aloe Vera in cosmetic formulations is not possible within this analytical approach.

What the Results Tell You

- ✓ **Product integrity:** Verification of authentic aloe vera composition
- ✓ **Degradation status:** Detection of biological and chemical degradation
- ✓ **Processing:** Differentiation between whole leaf and fillet material
- ✓ **Formulation insights:** Identification of added excipients such as maltodextrin

Ready to Evaluate Your Aloe Vera Material? Contact us to discuss your analytical needs.

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