

AromavisION

*A complete solution for stable isotope analysis
in the Flavor and Fragrance Industry*



Small footprint



Ease of use



Advanced data analysis



Low cost of ownership



Aromavision

*Natural or
Synthetic?*



As the interest of the consumer for healthy and natural products grows, it becomes more important than ever to ensure that we can guarantee the trust placed in the products that are consumed. The flavor and fragrance industry places a premium on their brand value and wants to protect their reputation. Stable isotope analysis can help ensure the continued trust of the consumer by its capability of detecting fraudulent adulteration of premium products using their

uniquely inherent isotope signature as well as confirming the true origin of its ingredients. This helps guarantee the safety of the carefully accrued brand value.

Aromavision is a critical tool in the arsenal for protecting the consumer and gives more laboratories greater capability to detect unscrupulous behaviour. With low running costs and minimal contact time, Aromavision provides significant advantage to your laboratory.

A powerful combination.

Elementar

Market leading **isoprime vision** stable isotope analyzer



ionOS® is the most advanced stable isotope software ever produced.



ionOS KEY FEATURES

- Incredible new capabilities for acquisition and data processing.
- Elegant user interface with contextual control.
- Intelligent and automatic instrument performance optimization.
- Instantaneous data processing with dynamically updating results.
- Import your data from 3rd party instruments.

ionOS works in concert with the **isoprime visION** and **centrION** to provide an unrivalled level of intelligent control. Designed completely from the ground up and uniquely for stable isotope analysis, ionOS is the most sophisticated yet simple software ever created. Its clean user interface belies the level of sophistication within, giving users unrivalled capabilities to generate exceptional data with ease.

AromavisION reclaims responsibility for sample analysis from the user by offering incredible functionality both pre- and post-acquisition significantly reducing instrument contact time.

isoprime visION is the most elegantly simple stable isotope analyzer ever created.

Simplicity is what **isoprime visION** is about. Creating something simple seems, well, simple. In fact, simplicity can only be achieved once the fundamental requirements of our customers are understood. With this clarity, **isoprime visION** offers a completely new experience of stable isotope analysis. An experience where the user is free from the routine chores of maintenance allowing them to focus on the science, not the instrumentation.

isoprime visION offers exceptional bulk and compound specific isotope analysis through market leading technology from Elementar and Agilent Technologies. Harnessing this technical ability through the **isoprime visION** finally opens the power of stable isotopes to practically any laboratory.



isoprime visION KEY FEATURES

- Almost 50 % smaller than any other instrument
- Straightforward analysis and intelligent control for incredible ease of use
- Powerful ionOS Peak Mapping reduces whole oil data processing time to minutes rather than hours, generating a large increase in lab productivity
- Intelligent monitoring gas injection and inlet handling with **centrION**
- Good-For-Go control significantly reduces instrument contact time
- 100 V amplification for large dynamic range samples, typical for minor and major components
- Market leading GC furnace design provides long term, robust sample analysis without re-conditioning

Ⓢ Agilent Technologies

Market leading 7890B
gas chromatograph



Aromavision ENHANCEMENTS

- Utilizing bulk isotope analysis with the vario PYRO cube for the control of raw materials allows for isotope fingerprinting
- Combining GC and EA data for high confidence identification of fraud
- Generate the fastest truly multi-elemental fingerprint of your sample with the patented OH and CNS analysis from an organic sample
- ^{18}O & ^2H are useful geolocation indicators and can be analyzed in liquids using the vario LIQUID sampler
- Perform accurate weighing with 6 figure analytical microbalance for high precision elemental analysis.

Expand your research further.

Ⓢ Elemental Analysis

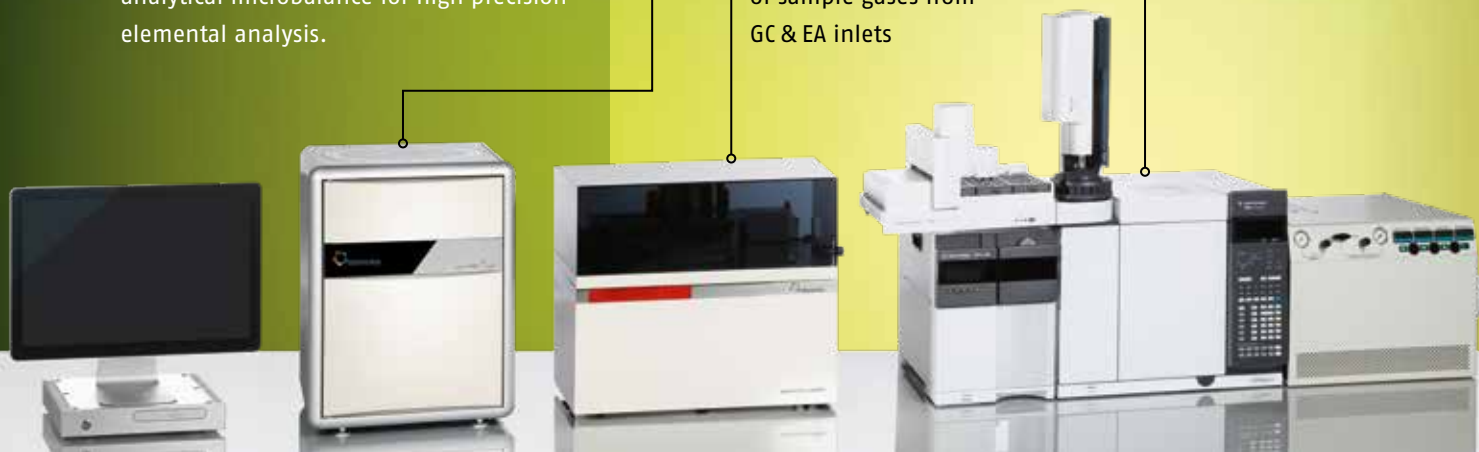
Conversion of bulk organics to sample gases prior to isotope analysis

Ⓢ Isotope Analysis

Intelligent analysis of sample gases from GC & EA inlets

Ⓢ Gas Chromatography

Separation of volatile organics and real time conversion to sample gases



RESEARCH AREAS SERVED

- Food analysis contract laboratories
- Public food & farming laboratories
- Private food production facilities
- Academic research groups

SAMPLE TYPES ANALYZED

- Flavorings, aromas and essential oils
- Fruit pulp and vegetable matter
- Olive oils
- Processed foods
- Alcoholic beverages



Small footprint

Almost 50 % smaller than any other commercial stable isotope analyzer



Ease of use

Good-For-Go control allows one click instrument set-up



Advanced data analysis

The most powerful stable isotope data processing software ever created



Low cost of ownership

Instrument sleep / wake-up functions for reduced consumption of resources

Elementar – your partner for excellent elemental analysis

Elementar is the world leader in high performance analysis of organic and inorganic elements. Continuous innovation, creative solutions and comprehensive support form the foundation of the Elementar brand, ensuring our products continue to advance science across agriculture, chemical, environmental, energy, materials and forensics markets in more than 80 countries.

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