The Isotope Fingerprints and What They Tell Us for Food & Beverage

History can't hide from the Isotope Hunter. Geography, geology and growth conditions of foods, fibers, liquids or stone are embedded in their unique isotope fingerprints. Trace your sample history with the Thermo Scientific[™] Isotope Ratio Mass Spectrometry portfolio.

Carbon

Interprets: Botanical origin C3, C4 and CAM photosynthesis Identifies: Adulteration (e.g. sweetening with cheap sugar) Foods Affected: Honey, liquor, wine, olive oil, butter and flavors

Interprets: Local-regional rainfall geographical area Identifies: Dilution of beverages, and place of product origin Foods Affected: Coffee, wine, liquor, water, sugar, animal meat and flavors

Nitrogen

Interprets: Soil processes, plant fertilizer processes Identifies: Mislabeling (organic vs. non-organic) Foods Affected: Fruits, vegetables and animal meat

Detecting ¹³Clues, tracking ¹⁸Origin, unraveling ²History with isotope fingerprints Investigate now thermofisher.com/lsotopeFin

Interprets: Local soil conditions, proximity to shoreline Identifies: Product origin Foods Affected: Fruits, vegetables, animal meat and honey

Hydrogen

Interprets: Local-regional rainfall geographical area Identifies: Dilution of beverages, product origin Foods Affected: Coffee, wine, liquor, water, sugar, animal meat and flavors

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