

Search

- [Contact us](#)
- [Login](#)
-

MARKES international

- [Instrumentation](#) [View Instrumentation submenu](#)
 - [Thermal desorption instruments](#) [View Thermal desorption instruments submenu](#)
 - [Sorbent tube](#)
 - [DAAMS instruments](#)
 - [TD100-xr](#)
 - [UNITY-xr](#)
 - [UNITY-ULTRA-xr](#)
 - [UNITY-ULTRA-xr Pro](#)
 - [Centri](#)
 - [On-line sampling](#)
 - [UNITY-Air Server-xr](#)
 - [UNITY-CIA Advantage](#)
 - [TT24-7NRT](#)
 - [TT24-7xr](#)
 - [Canister & bag](#)
 - [CIA Advantage-xr](#)
 - [Accessories](#)
 - [Micro-Chamber/Thermal Extractor](#)
 - [Multi-tube sampler](#)
 - [Tube conditioners](#)
 - [Water management](#)
 - [Sample automation & concentration](#) [View Sample automation & concentration submenu](#)
 - [Sample concentration](#)
 - [Centri 90](#)
 - [Centri 180](#)
 - [Centri 360](#)
- [Sampling technologies](#) [View Sampling technologies submenu](#)
 - [Active sampling](#)
 - [Breath sampling](#)
 - [Direct desorption](#)
 - [High-capacity sorptive extraction \(HiSorb\)](#)
 - [Microchamber sampling](#)
 - [Passive sampling](#)
 - [Vacuum-assisted extraction](#)
- [Applications](#) [View Applications submenu](#)
 - [Automotive](#) [View Automotive submenu](#)
 - [Vehicle Interior Air Quality \(VIAQ\)](#)
 - [Automotive material testing](#)
 - [Quick screening of automotive materials](#)
 - [Breath analysis](#)
 - [Chemical ecology](#)
 - [Defence](#)
 - [Environmental monitoring](#) [View Environmental monitoring submenu](#)
 - [Ambient air](#)
 - [Indoor air](#)
 - [Industrial air](#)
 - [PFAS](#)
 - [Soil analysis](#)
 - [Water analysis](#)
 - [Food & drink](#) [View Food & drink submenu](#)
 - [Food](#)
 - [Drink/Beverage](#)
 - [Ethylene oxide analysis](#)
 - [Forensic](#)
 - [Forensic](#)
 - [Fragranced products](#)
 - [Hydrogen fuel impurities](#)
 - [Materials & consumer products](#) [View Materials & consumer products submenu](#)
 - [Cleanroom contaminants](#)
 - [Construction products](#)
 - [Formaldehyde testing](#)
 - [Plastics](#)
 - [Spray polyurethane foam](#)
 - [Respiratory medical devices](#)
 - [Tobacco & e-cigarettes](#)
- [Content hub](#) [View Content hub submenu](#)
 - - [Application guides](#)
 - [Application notes](#)
 - [Articles](#)
 - [Blog](#)
 - - [Brochures](#)
 - [Case studies](#)
 - [E-books](#)
 - [FAQs](#)
 - - ['How to' videos](#)
 - [Infographics](#)
 - ['Instant Insight' notes](#)
 - [Instructions for use](#)
 - - [Technical specifications](#)
 - [News](#)
 - [Podcasts](#)
 - [Posters](#)
 - - [Reports](#)
 - [Standard Methods](#)

- [Unit converter](#)
 - [User videos](#)
 - [Webinars](#)
- [Support](#) View Support submenu
 - [Consultancy](#)
 - [Engineer support](#)
 - [FAQs](#)
 - ['How to' documents](#)
 - [Raise a support case](#)
 - [Service contracts](#)
 - [Training academy](#)
- [Shop](#)
- [About us](#) View About us submenu
 - [About us](#)
 - [ESG](#)
 - [Events](#)
 - [Global distributors](#)
 - [Virtual laboratory tour](#)

[Home](#) [Content hub](#) [Application notes](#) [Application Note 275](#)



[Application note](#)

Categories: [Sample extraction, solids and liquids](#) [HiSorb probes](#) [Food Centri – Sample extraction & enrichment platform](#) [High-capacity sorptive extraction](#) [Application note](#)

Authentic or synthetic? Discovering authenticity markers in luxury to low-cost honey varieties using a high-capacity sorptive extraction technique (HiSorb™)

Application Note 275

Name

Name

Email

Email

Message

Message

I'm not a robot

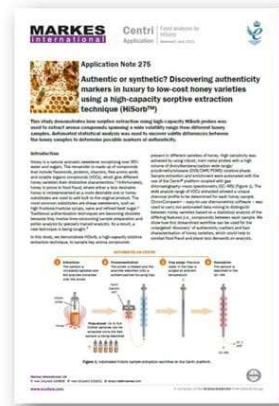
reCAPTCHA
Privacy - Terms

[Page contents](#)

- [Download app note](#)

This study demonstrates how sorptive extraction using high-capacity HiSorb probes was used to extract aroma compounds spanning a wide volatility range from different honey samples. Automated statistical analysis was used to uncover subtle differences between the honey samples to determine possible markers of authenticity.

Honey is prone to food fraud, where either a less desirable honey is misrepresented as a more desirable one or honey substitutes are used to bulk the original product. The most common substitutes are cheap sweeteners, such as high fructose/maltose syrups, cane and refined beet sugar. Traditional authentication techniques are becoming obsolete because they involve time-consuming sample preparation and pollen analysis by specially trained analysts. As a result, a new technique is being sought.



Please complete the form below to download the full application note

Business Email

 Not jim jeffs? [Click Here.](#)

I'm not a robot reCAPTCHA
Privacy - Terms



**Award Winner
2018**



BMTA



- **About Markes**
 - [About us](#)
 - [Contact us](#)
 - [Meet the team](#)
 - [News](#)
 - [Events](#)
 - [Careers](#)
 - [Technical innovation](#)
 - ['The Sample' newsletter](#)
 - [Markes China website](#)
- **Support & services**
 - [Raise a support case](#)
 - [FAQs](#)
 - [Virtual laboratory tour](#)
 - [Training](#)
 - [Unit conversion](#)
 - [Buy online](#)
 - [Open a customer account](#)
- **Policies**
 - [Terms & conditions](#)
 - [Website use T&Cs](#)
 - [Trademarks](#)
 - [Privacy policy](#)
 - [Modern slavery policy](#)
 - [Anti-bribery & corruption policy](#)

+44 (0)1443 230935

enquiries@markes.com

[中文](#)

[Back to top](#)

[A company of the Schauenburg Analytics Ltd group](#)

Markes International Ltd | Registered in England No. 3414783 | VAT Registration No. GB851 1406 56

 Agent offline

 Agent offline