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## HiSorb sorptive extraction

### High-capacity sorptive extraction for fully automated extraction and analysis

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## Overview

HiSorb is an innovative labour-saving sampling system for the analysis of volatile and semi-volatile organic compounds (VOCs and SVOCs) in liquids and solids by TD–GC–MS. HiSorb can be used for headspace as well as immersive sampling.

- Detection limits are lower than for SPME because of the larger capacity of sorptive phase
- Easier and quicker to use than solvent extraction
- Re-usable probes and tubes minimise the cost per sample
- Robust and easy to use with multiple phases available
- Simple and elegant design when working with opaque or dirty liquids

Extending the capability of thermal desorption (TD), HiSorb probes and accessories are ideal for trace-level component characterisation, aroma profiling, quality control and advanced research across a wide range of applications. HiSorb is suitable for existing thermal desorption users wishing to extend their capabilities to extraction from liquids, as well as users of headspace, solid-phase microextraction (SPME) or liquid extraction wanting to enhance the characterisation of their samples or obtain complementary information.

HiSorb is fully automated by the [Centri sampling and preconcentration platform](#), allowing unattended sample preparation and maximising productivity.

**HiSorb did amazingly well with such a complex matrix. With its high capacity sorbents, we were able to monitor the degradation of nicotine in a very complex matrix down to a concentration of 1 ppm using conventional GC–MS.**

Eleftheria Psillakis

Professor of water chemistry, at the Technical University of Crete, Greece

[Visit our online shop to buy HiSorb probes](#), available in four phase combinations:

**PDMS** Suitable for volatiles to non-polar semi-volatiles

**PDMS/CWR** Suitable for lower molecular weight compounds

**PDMS/DVB** Suitable for volatiles, amines and polar compounds

**DVB/CWR/PDMS** Suitable for volatiles, semi-volatiles and flavour compounds

### Recently published journal articles

[HiSorb sorptive extraction for determining salivary short chain fatty acids and hydroxy acids in heart failure patients](#)

## HiSorb resources

HiSorb starter kit PDMS

Starter kit DVB/CWR/PDMS

Starter kit PDMS/CWR

Starter kit PDMS/DVB

HiSorb brochure

HiSorb probes Instruction for use

HiSorb Agitator Instruction for use



## Application notes

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Application note

[HiSorb™ high-capacity sorptive extraction phase evaluation for aroma and flavour profiling of honey](#)



Application note

[Headspace sampling using HiSorb™ high-capacity sorptive extraction for flavour profiling of foods and beverages](#)



Application note

[Evaluation of new high-capacity sorptive extraction \(HiSorb™\) phases for flavour profiling of hard seltzers](#)



Application note

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

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Blog

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Instruction for use

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'How to' video

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Blog

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