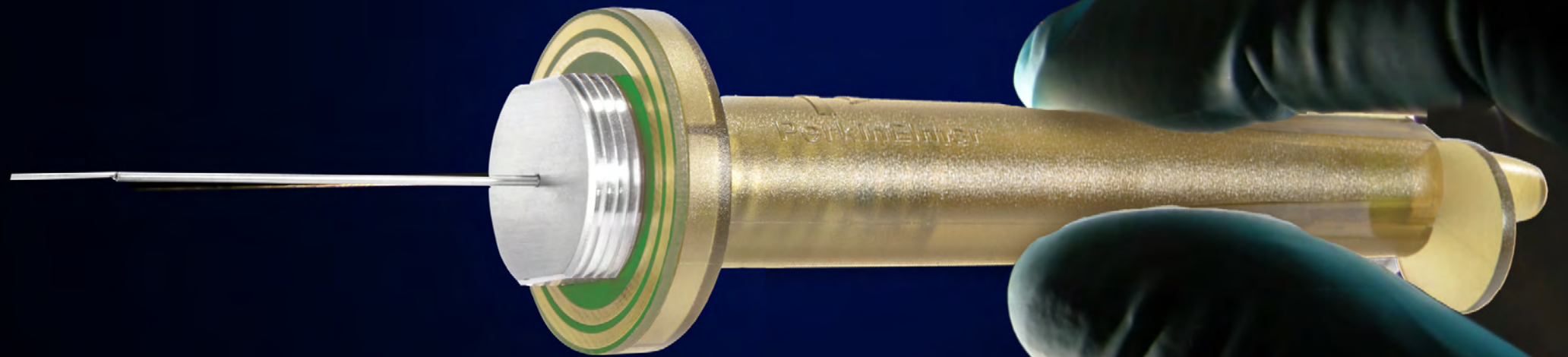


IT'S NOT JUST A SYRINGE

Custodion® Syringes for Sample Collection



Custodion SPME Syringes



Custodion CME Syringes



Custodion NT Syringes



PerkinElmer
For the Better

From Collection to Injection

Crime scenes, chemical spills, environmental contaminants – our Custodion family of sampling devices enable you to accurately analyze and get the results you need, quickly and efficiently.

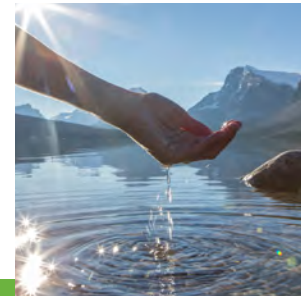
Whether you're testing gaseous compounds, liquid phases, or solid materials, there's a Custodion solution specially designed for you and your science. Unlike ordinary syringes, ours are easy to handle – even while wearing bulky protective gear – so you can analyze samples with perfect precision every time.

Our one-handed Custodion syringes feature a hard-plastic design and retractable ballpoint pen-style handle, making

it versatile and easy for you to operate in the field. The click-button actuator at the top of the handle enables the syringe to function as both a collection device and gas chromatography (GC) injector simply by extending or retracting the SPME fiber/CME wire from the protective, blunt 19-gauge needle.

What's more, the Custodion design allows the Torion® T-9 to be the only portable GC/MS on the market that can easily transition from one Custodion sampling device to another without changing the instrument interface. So you can remain focused on the task at hand.

Welcome to the Custodion family.



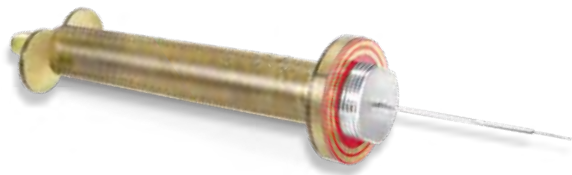
SPME Syringe
CME Syringe
NT Syringe

Environmental
Forensic / Hazmat
Food


PerkinElmer[®]
For the Better

Easiest Field Sampling, Hands Down

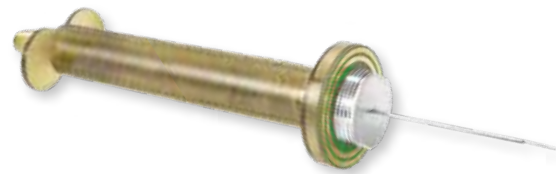
Our Custodion sampling devices have been designed to target a specific range of chemicals for rapid collection and concentration in the field. Find out which one-handed syringe is right for you.



Solid Phase Microextraction (SPME)

What it is: A technique that combines extraction, collection, and concentration of analytes present in gases and some liquids

What it is used for: Perfect for headspace sampling and extracting analytes from water



Coiled Microextraction (CME)

What it is: Liquid extraction technique that captures the liquid sample in the coiled wire and, once evaporated, leaves behind any present analytes present

What it is used for: Ideal for semi-volatile to solid-target analytes that are dissolved in a volatile solvent



Needle Trap (NT)

What it is: A miniaturized air sampling concentration tube that's quantitative with the SPS-3 Clairion Pump

What it is used for: Built for air and gas analysis

SPME Syringe
CME Syringe
NT Syringe

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From Field to Final Results

There's a growing need to test our water and soil for trace levels of volatile and semivolatile organic compounds (VOCs and SVOCs) in field-based locations. Now it's possible to achieve laboratory-grade performance and results using a portable GC/MS combined with rapid sample preparation and introduction techniques.



Drink in Efficiency

The Custodion CME syringe, coupled with the field-portable Torion T-9 GC/MS, enables you to identify and measure geosmin, an organic compound that affects the smell and taste of drinking water. The best part? It takes less than 10 minutes.

[Click here to learn how it works.](#)



Rapid, Reliable Results

Using the Custodion SPME syringe and the Torion T-9 system, you can easily test for methyl tert-butyl ether (MTBE) and the combination of benzene, toluene, ethylbenzene, and xylenes (BTEX) in groundwater to determine petroleum contamination.

[Click here to learn more about this on-site analysis.](#)



On point. On site. On time.

The Custodion SPME and Torion T-9 system are a perfect pair, giving you real-time field analysis of VOCs and SVOCs in soil. Results are obtained in just minutes, so you can continue testing – sample after sample – in record time.

[Click here to learn more about testing soil using SPME-GC/MS.](#)

SPME Syringe
CME Syringe
NT Syringe

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Detection Begins in the Palm of Your Hands

Whether you're testing for narcotics or explosive materials, our portable sampling solution enables you to accurately analyze on point, on site, and on time. With our CME syringe you can effectively perform liquid and solid sample preparation with semivolatiles compounds right in the field.



Ready Where You Are

The widespread misuse of drug substances has created the need to determine the types of chemical compounds present in various drugs. Using our Custodion CME syringe, coupled with the Torion T-9 portable GC/MS, you can identify 16 common drug substances in less than 10 minutes.

[Click here to learn more about testing narcotics in the field.](#)



Small. Portable. Significant.

With the increase in opioid-related fatalities, there's a demand for rapid, in-field screening of synthetically manufactured drugs. Today, fentanyl, acetyl fentanyl, carfentanil, and heroin can be collected and identified in less than eight minutes using Custodial CME syringes and the Torion T-9 system.

[Click here to learn more about the opioid screening process.](#)



On-Site Analysis Whenever You Need It

As terrorist groups around the globe develop new methods for concealing and delivering homemade explosives and improvised explosive devices, it's more important than ever to be able to identify them quickly. Custodion SPME and CME samplers, coupled with the Torion T-9 system, identify explosive materials and secondary identifiers – for example, tagging agents, stabilizers, propellants, and solvents.

[Click here to learn more about on-site screening of explosive materials.](#)

SPME Syringe
CME Syringe
NT Syringe

Environmental
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Food



A Sampling Device That Makes All the Difference

When it comes to food and consumer materials, it's more important than ever to have access to a field-portable GC/MS system. Whether you're testing for adulterated spirits, terpenes, pesticides, or volatile components, our solution gives you the pinpoint accuracy you've come to expect from the brand you trust.



Determining Whiskey's Authenticity

Scotch whisky is the largest category of whisky in the world. Often, denatured alcohol is added to it to increase the overall alcohol content. Our SPME syringe, coupled with the portable Torion T-9 GC/MS system, provides rapid, reliable determination of the presence of denatured alcohol in about 10 minutes.

[Click here to learn more about field testing Scotch whisky.](#)



Analyzing Pesticides in Black Tea

Capillary gas chromatography is used to analyze organochlorine pesticides in food, water, and soil samples. Now you can achieve laboratory-grade performance with our Torion T-9 system and rapid sample preparation techniques.

[Click here to learn more about testing for organochlorine pesticides in black tea samples.](#)



Studying Flavor Compounds in Coffee

Hundreds of volatile and semivolatile aroma and flavor compounds can be identified in coffee using our Custodial SPME syringes and the Torion T-9 system. It provides rapid and reliable screening technology in minutes, making it an ideal tool for on-site analysis.

[Click here to learn more about the study of coffee aroma profiles.](#)

SPME Syringe
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Fast Results Anytime, Anywhere

Our Torion T-9 portable GC/MS brings new meaning to portability. At a total weight of only 32 pounds, this one-of-a-kind system is also fast, reliable, and easy to use. Torion technology integrates a high-speed low-thermal mass (LTM) capillary GC with a miniaturized toroidal ion trap MS to provide a fast, reliable, and easy-to-operate GC/MS system.

We've designed the portable Torion T-9 GC/MS to be carried in the field for rapid screening of chemicals such as environmental VOCs and SVOCs, explosives, chemical threats, and hazardous substances. Coupled with our Custodion CME and SPME syringes, you have an in-field, all-in-one sample testing solution.



SPME Syringe
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For more information on our Custodion syringes, visit www.perkinelmer.com

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