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Thermo Extractor TE 2

for preparing samples
for thermal desorption

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GERSTEL-Thermo Extractor TE 2

High water content, physical sample size, and low concentration of analytes can hinder thermal desorption/GC analysis of volatile compounds of interest such as fragrances, off-odors and reaction products. The GERSTEL ThermoExtractor (TE 2) eliminates this problem by concentrating the analytes on a standard TDS adsorbent tube while eliminating water and leaving the matrix behind.

In the sample preparation stage, a solid, gelatinous or liquid sample is placed in the TE tube which is then heated to the desired temperature (typically 30°C to 100°C) while an adjustable flow of inert gas is passed through the TE tube.

The inert gas flowing around the hot sample extracts the water and the volatile components, which are then trapped on the Tenax bed of a standard TDS tube. The water is eliminated by »dry purging« the Tenax tube. The tube is then removed and placed in a TDS 2.

The Tenax tube is analyzed using the GERSTEL thermal desorption technique of refocusing compounds in the Cooled Injection System CIS, and then introducing them as a narrow band onto the GC column for separation.

GERSTEL TE2 benefits:

- Lower detection limits because of greater sample capacity
- Capable of simultaneous matrix and water removal
- Saves analysis time because of Off-line operation

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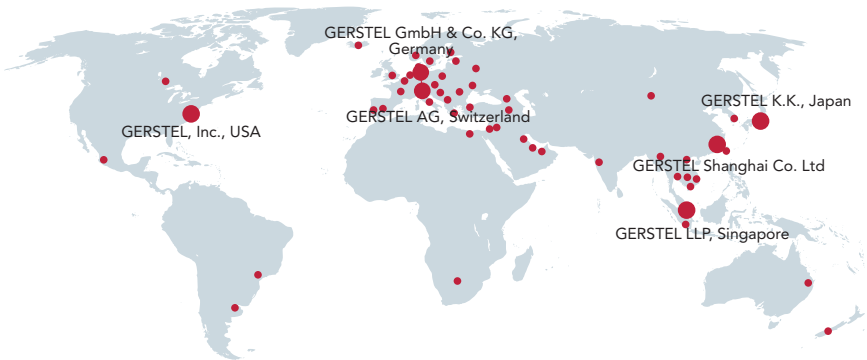

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