



# Sampling and Sample Preparation Kit



Chemical  
defense

## Accurate and quick preparation for GC/MS analysis

This chemical sample preparation kit is specifically designed for the use by first responders and safety operators.

With analytical work – the step of sampling and also the sample preparation are the most important ones to achieve correct results. The sampling procedures are easy, quick and fail safe. Step by step procedures lead to a sample that can be analyzed by Thermal Desorption-GC/MS and provide correct results.



## List of contented methods

Accessories for sampling and analysis are sorted according to the sampling methods:

### 1. Method WL (Water-volatiles)

- 3 glass bottles (250 ml) for sampling and extraction
- 3 purge & trap-adaptor screw caps with teflon sealing, fritted glass disk, Swagelok-adaptor for sampling cartridges (sampling tubes)

### 3. Method BL (Soil-volatiles)

- 3 glass bottles (250 ml)
- 3 headspace screw caps with teflon sealing
- Swagelok-adaptor for sampling cartridges (sampling tubes)
- Swagelok-feed-trough
- Swagelok-ventilation screw
- 3 samplers for soil and transportation cover

### 5. Method OF (Surface-solids)

- 5 test tubes with sampling tip for solids
- 5 test tubes with sampling tip for liquids
- 5 test tubes with wipe sampler

### 2. Method WE (Water-liquid extraction)

- Extract bottles PE
- 3 screw caps
- 3 liquid transfer adapter
- tips for pipettes

### 4. Method BE (Soil-extraction)

- 5 test tubes with soil samples
- 5 caps with teflon sealing
- tips for pipettes (10 ml extraction)
- tips for pipettes (5 µl injection)

### 6. Method LS (Air)

- dispenser of internal standards on sampling tubes (sampling with hand pump)



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#### Standard Liquids

- 250 ml glass bottle with Acetone and deuterated internal standards
- 250 ml glass bottle with n-Hexane and deuterated internal standards
- 100 ml glass bottle with Methanol and deuterated internal standards

#### 9 Cartridges

with Swagelok caps and teflon sealing for sampling with:

- 3 tenax as adsorbent material (blue)
- 3 combination of adsorbents (black)
- 3 extraction tubes (red)

#### Ultrasonic cleaner

#### Pipette

Eppendorf (5 µl Injection)

#### Pipette

Eppendorf (10 ml Injection)

#### BF-Heater

(Water bath)



#### System

for extraction and addition of standards:

- Swagelok fittings and tubing for connection to hand pump
- Charcoal filter with restriction
- Casing with transparent cover

#### Hand pump

#### Case

for the safe transportation of all sampling and analysis tools.

According to MIL standard.

#### Description of Methods

for correct handling.