

Tech Tips

The 520 Inorganic Mercury Passive Sampler only samples elemental mercury (Hg) in the vapor phase; it does not sample elemental Hg in the particulate phase or organic mercury compounds.

More Information
www.skinc.com



Ozone Test Sticks

Ozone Test Sticks provide a quick indication of ambient levels of ozone in both indoor and outdoor air. Because high concentrations of ozone have been medically proven to damage lung tissue and reduce lung efficiency up to 20%, it is important to consistently monitor ozone levels within an area. Ozone Test Sticks are chemically treated to react with ozone. Simply place an easy-to-use test stick in the area to be tested. After 10 minutes, compare the test stick tip with the color scale on the test stick package. Results display in four distinct colors, each representing a specific level of ozone concentration ranging from < 0.045 ppm to > 0.105 ppm.

Ozone Test Sticks, moisture-proof tube contains 50 test sticks with instructions. 3-month shelf-life after container is opened
Cat. No.526-300

Caution: Ozone Test Sticks are not for ozone generators. For qualitative use only.

Inorganic Mercury Passive Sampler
Validated by OSHA Method ID 140, Complies with MDHS 16/2

- ▶ **Lowest cost per measurement available**
 - Reusable capsule holder
 - Replaceable sorbent capsule
- ▶ **Lightweight and easy-to-use**
 - No pump needed
- ▶ **No moisture or chlorine interferences**
- ▶ **Long-term sampling up to 120 hours**
- ▶ **Validated by OSHA ID 140, complies with MDHS 16/2**
- ▶ **High accuracy, sensitivity, and capacity**
 - Positive analysis of mercury
 - Removable sorbent capsule eliminates false high readings due to badge housing contamination



The SKC Inorganic Mercury Passive Sampler measures worker exposure level as a Time-Weighted Average (TWA) and permits positive analysis for mercury vapor. This economical and reliable passive sampler is designed for analysis by flameless atomic absorption. The capsule holder can be cleaned and reused to reduce sampling costs.

Description	Cat. No.	Qty.
Sorbent Capsules contain Anasorb C300* and include replacement foams and resealable bags	520-02A	10
	520-02C	30
Reusable Capsule Holder	520-03	ea

* SKC propriety sorbent; comparable to Hydrar and Carulite®
Note: For sampling of low levels of mercury, use a sorbent tube.

526 Series Formaldehyde Passive Samplers
Validated Based on NIOSH Method 3500

- ▶ **Samplers available for personal and indoor air sampling**
 - Lightweight personal samplers
 - STEL, 15-minute sampling (0.5 to 6 ppm)
 - PEL, 8-hour sampling (0.2 to 2 ppm)
 - Easy-to-use indoor air sampler for 5 to 7-day measurements (detection limit: 0.01 ppm [\pm 30%], 0.02 ppm [\pm 15%])
- ▶ **No technical training required**
- ▶ **Small and unobtrusive**
- ▶ **No known interferences**



526-200/201 Personal



526-100 Indoor Air

526 Series Personal	Cat. No.	Qty.
STEL (15-min) Personal Formaldehyde Sampler , detection range: 0.5 to 6 ppm*†	526-200*†	ea
PEL (8-hr) Personal Formaldehyde Sampler , detection range: 0.2 to 2 ppm†	526-201†	ea

* Not suitable for detecting the ACGIH TLV ceiling value of 0.3 ppm with a 15-minute sample

526 Series Indoor Air	Cat. No.	Qty.
Indoor Air Formaldehyde Sampler Kit**† , includes 2 samplers, 2 mounting pins, and 2 identification labels	526-100**†	ea

** Limited shelf-life
† U.S. OSHA recommends active sampling with sorbent tubes when the source of formaldehyde is formalin unless data is available showing good correlation between tubes and samplers.

UMEX¹⁰⁰ Passive Sampler for Formaldehyde

Meets OSHA Method 1007 Specifications and Complies with MDHS 78

► **Accurate and reliable for formaldehyde collection**

- Accuracy exceeds OSHA standards
- Uses popular 2,4-DNPH chemistry
- Validated by OSHA and Swedish Institute

► **Economical and easy-to-use**

- No pump or training required
- Low-cost sampler
- Sample medium and blank/correction in one unit

► **Documented uptake rates**

- For 15-min to 24-hour samples
- For 7-day samples*

► **Conforms to EU ISO 16000-4-2004**

► **Meets specifications of OSHA Method 1007 and complies with MDHS 78**

► **Low limits of detection**

- 2 ppb or 0.03 µg/sampler

► **Versatile sampler**

- Workplace sampling from 15 minutes to 12 hours
- Indoor air sampling with validated rates for 24-hour or 7-day samples*

The Exponentially Better Sampler

Sample and blank/correction in one unit: Only SKC UME^X samplers provide the convenience and economy of the sample and blank/correction in one sampler — no extra samplers to order and ship!

Lower limits of detection: 2,4-dinitrophenylhydrazine (DNPH) chemistry detects formaldehyde as low as 2 ppb.

Highly selective: DNPH is highly selective for formaldehyde.

Easy analysis: High-performance liquid chromatography (HPLC) analysis is simple, allows easy separation of sample components, and may be used with several sensitive selective detectors.

Validated sampling rates: Accurate sampling for 15 mins, 12 hrs, 24 hrs, or 7 days*.



UMEx 100 Sampler with sliding cover in sampling position

**Sample + Blank/Correction in One =
Time and Money Saved**

Description	Cat. No.	Qty.
UMEX¹⁰⁰ Passive Sampler for Formaldehyde† <i>Limited shelf-life; freezer storage required</i>	500-100†	10

* Sampling periods between 24 hrs and 7 days have not been evaluated.
† U.S. OSHA recommends active sampling with sorbent tubes when the source of formaldehyde is formalin unless data is available showing good correlation between tubes and samplers.



UMEX⁴⁰⁰ for Amines

The UME⁴⁰⁰ Passive Sampler for Amines uses the same chemistry as active OSHA Method 60. The badge housing contains a tape impregnated with 1-naphthyl-isothiocyanate (NITC) for the passive collection and analysis of ppm-level aliphatic amines such as methyl amine, dimethyl amine, isopropyl amine, allyl amine, and n-butyl amine. Analysis is by high-performance liquid chromatography with UV detection (HPLC-UV).

UMEX⁴⁰⁰ Passive Sampler for Amines, pk/10

Cat. No. 500-400
Limited shelf-life, freezer storage required

More Information

- Levin, J. O. and Lindahl, R., "Diffusive Air Sampling of Reactive Compounds - A Review," *Analyst*, Vol. 119, January 1994, p. 79-93.
- SKC Update to EPA Compendium Method IP-6C
- Determination of Formaldehyde Using the SKC UME¹⁰⁰ (Cat. No. 500-100) Diffusive Sampler, SKC Research Report.
- OSHA Method 1007 for Formaldehyde (Diffusive Samplers)

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