Working with your IH Lab to Maximize Quality and Cost Efficiency for Air Sampling

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Deputy Director
Wisconsin Occupational Health Laboratory
(Field IH + IH Lab) = Successful Sampling
Depending on the situation, the job of an IH working in the field can be Challenging.
How do You make this Happen?

1. IH Lab is dedicated to customer support
2. IH Lab has tools in place to make communication convenient and beneficial
3. IH Lab has understanding of media
4. IH Lab offers wide variety of scans
5. IH Lab offers training opportunities
6. Field IH takes advantage of IH Lab
1. IH Lab is Dedicated to Customer Support

- Commitment from top down to make resources available
Dedicated to Customer Support

- Commitment from top down to make resources available
- Expedited Analysis
You Need it When!
IH Lab is Dedicated to Customer Support

- Commitment from top down to make resources available
- Expedited Analysis
- Special requests and method development.
2. IH Lab has Tools in Place to make Communication Convenient and Beneficial

- Labs Web site
Providing our worldwide customers with state of the art science, excellent quality and exceptional customer service!

WOHL prides itself on supplying our customers with an extensive list of analytical capabilities, method development experience and industrial hygiene expertise.

A brief list of some of our analytical capabilities include: Metals, VOCs, Bioaerosols (molds, spores), Bacteria, Silica, Asbestos, Pesticides, Elemental Carbon (Diesel Exhaust), mVOCs, Environmental Tobacco Smoke, Isocyanates and many many more. Click on the "Sample Analysis" link on the menu bar at your left for more detailed analytical details. If you don't see it on the list; contact the lab. Odds are we have done (or can develop) a method to find your compound of interest.
IH Lab has Tools in Place to make Communication Convenient and Beneficial

- Labs Web site
- Sampling Guides - Written and On-line
# Sampling Guides

<table>
<thead>
<tr>
<th>ANALYTE</th>
<th>SAMPLING REFERENCE</th>
<th>MIN VOLUME</th>
<th>MAX VOLUME</th>
<th>FLOW RATE</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abietic acid</td>
<td>9 HPLC OSHA In-house</td>
<td>120</td>
<td>200</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Acephate</td>
<td>4 GC FPD In-house</td>
<td>60</td>
<td>480</td>
<td>1</td>
<td>May be collected with Methyl Azinphos</td>
</tr>
<tr>
<td>Acetaldehyde</td>
<td>113 OSHA 68(GC)</td>
<td>1</td>
<td>12</td>
<td>0.05</td>
<td>Or media #10 if collecting w/ HCHO</td>
</tr>
<tr>
<td>Acetamide</td>
<td>3 GC/NPD In-house</td>
<td>1</td>
<td>10</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>6 OSHA ID-186(SG)</td>
<td>10</td>
<td>240</td>
<td>0.2-5</td>
<td></td>
</tr>
<tr>
<td>Acetic Anhydride</td>
<td>111 OSHA 102(GC)</td>
<td>3</td>
<td>7.5</td>
<td>0.05</td>
<td>One month shelf life, store &amp; ship cold</td>
</tr>
<tr>
<td>Acetone</td>
<td>1 NIOSH 1300(GC)</td>
<td>1</td>
<td>3</td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>45 OSHA 69(GC)</td>
<td>1</td>
<td>3</td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>2 NIOSH 1606(GC)</td>
<td>3</td>
<td>25</td>
<td>0.2</td>
<td>Submit as separate sample</td>
</tr>
<tr>
<td>Acetophenone</td>
<td>8 OSHA PV 2003(GC)</td>
<td>1.5</td>
<td>12</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Acetylene Tetrabromide</td>
<td>NIOSH 2003(GC)</td>
<td>50</td>
<td>100</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Acids(Mineral)</td>
<td>6 NIOSH 7903(IC)</td>
<td>3</td>
<td>100</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Acrolein</td>
<td>10 OSHA 52(GC)</td>
<td>3</td>
<td>48</td>
<td>0.1</td>
<td>Sample for 24 L if also for formaldehyde</td>
</tr>
<tr>
<td>Acrylamide</td>
<td>116 OSHA PV 2004(GC)</td>
<td>15</td>
<td>120</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Acrylic Acid</td>
<td>121 OSHA 28(HPLC)</td>
<td>12</td>
<td>24</td>
<td>0.1</td>
<td>2 tubes in series</td>
</tr>
</tbody>
</table>
Welcome!

This sampling guide provided by the Wisconsin Occupation Health Laboratory (WOHL) will help you select appropriate sampling media, volumes and methods for a wide range of analyses. WOHL can perform analyses by methods other than those listed. However, please contact the laboratory before sending samples requiring a method not listed in this guide.

SEARCH THE GUIDE

The methods listed are current and where appropriate updates or replacements will be noted. Notification of changes will also be published in our newsletter *Reactions*.

This year’s sampling guide contains new sections describing some of our specialized analyses. These sections describe in detail our methods for solvent scans, pesticide scans, particle identification, elemental carbon and bioaerosols. Please take a few minutes to look over these sections.

We would appreciate your suggestions and comments on how we may improve our service to you. Please call our toll-free number, 800-446-0403, and speak with me or one of our customer service representatives. You can also communicate with us, order media, and read the current issue of *Reactions* newsletter on this website.

You can now use the menu to the left to begin using the Sampling Guide, or you can choose one of the following links: General Information; Symbol Explanation; Ordering Supplies; Specialized Services.

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Search by Analyte Name, CAS Number or IMIS Number

- **Substance Name**
  - Starts With: hexavalent
  - Contains

- **CAS Number**

- **IMIS Number**

Buttons:
- Search by Name
- Search by CAS #
- Search by IMIS #
Chromic Acid (Hexavalent Chromium) on 37 mm PVC filter in 2 piece Clear banded cassette marked Na/K/CrVI
Chromic Acid (Hexavalent Chromium) on 37 mm NaOH treated Quartz fiber filter
Chromium(hexavalent) on 37 mm NaOH treated Quartz fiber filter
Chromium(hexavalent) on 37 mm PVC filter in 2 piece Clear banded cassette marked Na/K/CrVI
Hexavalent Chromium on 37 mm PVC filter in 2 piece Clear banded cassette marked Na/K/CrVI
Hexavalent Chromium on 37 mm NaOH treated Quartz fiber filter

Back to Search Page
Hexavalent Chromium

37 mm PVC filter in 2 piece Clear banded cassette marked Na/K/CrVI

OSHA ID: 215

200

960

2.0

These filters are primarily for welding fumes and particulates. If sampling inside welding helmet use media #161. If sampling plating please use media #159.

Samples need to be sent back to the lab ASAP - samples need to be analyzed within 8 days of sampling for welding and plating.

Samples taken from plating operations, or where Cr+6 is present with acids, used media #159 (NaOH treated Quartz filter) or field desorbed in 5 ml of 10% sodium carbonate (Na2CO3) / 2% sodium bicarbonate (NaHCO3) solution (hexachrome field desorption solution) that can be provided by the lab upon request.

MSDS for the components of this solution can be found by clicking on the chemical names.

INSTRUCTIONS FOR FIELD DESORBING CrVI SAMPLES

1. Immediately after sampling open the cassette with a large flat head screwdriver or coin by prying the top from the bottom. 2. Use a paperclip that has been opened up or other small pointed object and push the backup pad up from the bottom portion of the cassette.

3. With a pair of Teflon coated or nylon tweezers, remove only the filter (leave the back-up behind) being very careful not to disturb the surface of the filter. 4. Open field desorbing solution vial and put filter into vial. 5. Replace the screw cap and shake. 6. Label the vial with a field number that corresponds to the sample submission form.
Tools in place to make communication convenient and beneficial

- Labs Web site
- Sampling Guides - Written and On-line
- E-mails (mailing groups)
Tools in place to make Communication Convenient and Beneficial

- Labs Web site
- Sampling Guides - Written and On-line
- E-mails (mailing groups)
- Newsletters
Tools in place to make communication convenient and beneficial

- Labs Web site
- Sampling Guides - Written and On-line
- E-mails (mailing groups)
- Newsletters
- Telephone Calls
3. IH Lab has Understanding of Media

- >100 different media available
- Understanding the recommended flow rates and volumes.
- Passive versus Active versus Whole air sampling
- Special handling situations
Understanding of media

>100 different media available
Understanding of Media

- Understanding the recommended flow rates and volumes.
Understanding of media

Active vs. Passive vs. Whole air sampling
Understanding of Media

Special Handling

- Open faced sampling
- Samples that need to stay cold
- Holding times for samples
- Field Desorption of samples
Field Desorption!

- When is it needed?
- Proper Techniques.
- Shipping requirements.
4. IH Lab Offers Wide Variety of Scans

- Understanding your labs pricing structure.
4. IH Lab Offers Wide Variety of Scans

- Understanding your labs pricing structure
- Types of scan

Solvent Scan    Glycol Ether Scan    Phthalate Scan
Pesticide Scan  PCB Scan           Minican Scan
Aldehyde Scan   Isocyanate Scan    Phenol Scan
PAH Scan        Acid Mist Scans    Amine Scans
Silica Scan     ICP Metal Scans    AA Metal Scan
5. IH Lab Offers Training Opportunities

- Lab courses
- Online help
6. Field IH takes Advantage of IH Lab

- Works with the Lab!
Good work, but I think we might need just a little more detail right here.
6. Field IH takes Advantage of IH Lab

- Works with Lab
- Understands what is being reported and what the lab actually measures.
Bridging the Gap to a Successful Sampling Event.