Chemical contaminant CRMs

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Dr. Ehrenstorfer is proud to contribute to the UCMR 4 effort by developing standards that specifically meet the testing requirements of the program.

The Fourth Unregulated Contaminant Monitoring Rule (UCMR 4) requires the monitoring of 30 chemical contaminants between 2018 and 2020 using analytical methods developed by EPA and consensus organizations. This monitoring provides a basis for future regulatory actions to protect public health.

UCMR provides EPA and others with scientifically valid data on the occurrence of these contaminants in drinking water. The data gained from UCMR 4 testing will assist the EPA in developing regulations that will govern the allowable presence of these contaminants in drinking water.

Please let us know if you have questions or would like to discuss your specific requirements.

We are here to help.
## UCMR 4

### Method 525.3

#### UCMR 4 Method 525.3 Mix

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 x MRL in Methanol</td>
<td>DRE-GS09000487ME</td>
<td>5 x 1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>a-BHC</td>
<td>319-84-6</td>
<td>100 µg/mL</td>
</tr>
<tr>
<td>chlorpyrifos</td>
<td>2921-88-2</td>
<td>300 µg/mL</td>
</tr>
<tr>
<td>dimethipin</td>
<td>55290-64-7</td>
<td>2000 µg/mL</td>
</tr>
<tr>
<td>Ethoprop</td>
<td>13194-48-4</td>
<td>300 µg/mL</td>
</tr>
<tr>
<td>oxyfluorfen</td>
<td>42874-03-3</td>
<td>500 µg/mL</td>
</tr>
<tr>
<td>permethrin (mixture of isomers)</td>
<td>52645-53-1</td>
<td>400 µg/mL</td>
</tr>
<tr>
<td>profenofos</td>
<td>41198-08-7</td>
<td>3000 µg/mL</td>
</tr>
<tr>
<td>tebuconazol (Folicur)</td>
<td>107534-96-3</td>
<td>2000 µg/mL</td>
</tr>
<tr>
<td>tribufos</td>
<td>78-48-8</td>
<td>700 µg/mL</td>
</tr>
</tbody>
</table>

#### UCMR 4 Method 525.3 Internal Standard Solution

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 µg/mL in Acetone</td>
<td>DRE-GA09000263AC</td>
<td>1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>acenaphthene-d10</td>
<td>15067-26-2</td>
<td>500 µg/mL</td>
</tr>
<tr>
<td>chrysene-d12</td>
<td>1719-03-5</td>
<td>500 µg/mL</td>
</tr>
<tr>
<td>phenanthrene-d10</td>
<td>1517-22-2</td>
<td>500 µg/mL</td>
</tr>
</tbody>
</table>

#### UCMR 4 Method 525.3 Surrogate Mix

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 µg/mL in Acetone</td>
<td>DRE-GA09000264AC</td>
<td>1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>benzol(apyrene-d12</td>
<td>63466-71-7</td>
<td>500 µg/mL</td>
</tr>
<tr>
<td>1,3-dimethyl-2-nitrobenzene</td>
<td>81-20-9</td>
<td>500 µg/mL</td>
</tr>
<tr>
<td>triphenyl phosphate</td>
<td>115-86-6</td>
<td>500 µg/mL</td>
</tr>
</tbody>
</table>

### Method 530

#### UCMR 4 Method 530 Mix

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 x MRL in Methanol</td>
<td>DRE-GS09000489ME</td>
<td>5 x 1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>butylated hydroxyanisole (BHA)</td>
<td>25013-16-5</td>
<td>300 µg/mL</td>
</tr>
<tr>
<td>quinoline</td>
<td>91-22-5</td>
<td>200 µg/mL</td>
</tr>
<tr>
<td>o-toluidine</td>
<td>95-53-4</td>
<td>70 µg/mL</td>
</tr>
</tbody>
</table>

#### UCMR 4 Method 530 Internal Standard Solution

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 µg/mL in Methanol</td>
<td>DRE-GA09000267ME</td>
<td>1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>acenaphthene-d10</td>
<td>15067-26-2</td>
<td>500 µg/mL</td>
</tr>
<tr>
<td>phenanthrene-d10</td>
<td>1517-22-2</td>
<td>500 µg/mL</td>
</tr>
</tbody>
</table>

#### UCMR 4 Method 530 Surrogate Mix

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 µg/mL in Methanol</td>
<td>DRE-GA09000266ME</td>
<td>1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>quinoline-d7</td>
<td>34071-94-8</td>
<td>500 µg/mL</td>
</tr>
<tr>
<td>o-toluidine-d9</td>
<td>194423-47-7</td>
<td>500 µg/mL</td>
</tr>
</tbody>
</table>

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### UCMR 4

#### Method 541

<table>
<thead>
<tr>
<th>UCMR 4 Method 541 Mix</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 x MRL in Methanol</td>
<td>DRE-GS09000488ME</td>
<td>5 x 1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propen-1-ol</td>
<td>107-18-6</td>
<td>500 µg/mL</td>
</tr>
<tr>
<td>1-butanol</td>
<td>71-36-3</td>
<td>2000 µg/mL</td>
</tr>
<tr>
<td>2-methoxyethanol</td>
<td>109-86-4</td>
<td>400 µg/mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UCMR 4 Method 541 Internal Standard Solution</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 µg/mL in Methanol</td>
<td>DRE-GA09000269ME</td>
<td>1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>chlorobenzene-d5</td>
<td>3114-55-4</td>
<td>1000 µg/mL</td>
</tr>
<tr>
<td>1,4-dioxane-d8</td>
<td>17647-74-4</td>
<td>1000 µg/mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UCMR 4 Method 541 Surrogate Mix</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 µg/mL in Methanol</td>
<td>DRE-GA09000270ME</td>
<td>1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-butanol-d10</td>
<td>34193-38-9</td>
<td>1000 µg/mL</td>
</tr>
<tr>
<td>2-Propen-1-ol-d6</td>
<td>1173018-56-8</td>
<td>1000 µg/mL</td>
</tr>
</tbody>
</table>

#### Method 552.3

<table>
<thead>
<tr>
<th>UCMR 4 Method 552.3 Mix</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 x MRL in MTBE</td>
<td>DRE-GS09000490MB</td>
<td>5 x 1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>bromoacetic acid</td>
<td>79-08-3</td>
<td>300 µg/mL</td>
</tr>
<tr>
<td>bromochloroacetic acid</td>
<td>5589-96-8</td>
<td>300 µg/mL</td>
</tr>
<tr>
<td>bromodichloroacetic acid</td>
<td>71133-14-7</td>
<td>500 µg/mL</td>
</tr>
<tr>
<td>chloroacetic acid</td>
<td>79-11-8</td>
<td>2000 µg/mL</td>
</tr>
<tr>
<td>chlorodibromoacetic acid</td>
<td>5278-95-5</td>
<td>300 µg/mL</td>
</tr>
<tr>
<td>dibromoacetic acid</td>
<td>631-64-1</td>
<td>300 µg/mL</td>
</tr>
<tr>
<td>dichloroacetic acid</td>
<td>79-43-6</td>
<td>200 µg/mL</td>
</tr>
<tr>
<td>tribromoacetic acid</td>
<td>75-96-7</td>
<td>2000 µg/mL</td>
</tr>
<tr>
<td>trichloroacetic acid</td>
<td>76-03-9</td>
<td>500 µg/mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EPA Method 552.3 Internal Standard Solution</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 µg/mL in Methanol</td>
<td>DRE-GA09010312ME</td>
<td>1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,3-trichloropropane</td>
<td>96-18-4</td>
<td>1000 µg/mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EPA Method 552.3 Surrogate Mix</th>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 µg/mL in MTBE</td>
<td>DRE-GA09010313MB</td>
<td>1 mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compounds</th>
<th>CAS</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-bromobutanoic acid</td>
<td>80-58-0</td>
<td>10,000 µg/mL</td>
</tr>
</tbody>
</table>

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EPA Method 200.8

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHG-PGENF-100</td>
<td>100 mL</td>
</tr>
<tr>
<td>VHG-PGENF-500</td>
<td>500 mL</td>
</tr>
<tr>
<td>VHG-PGEW-100</td>
<td>100 mL</td>
</tr>
<tr>
<td>VHG-PGEW-500</td>
<td>500 mL</td>
</tr>
<tr>
<td>VHG-PMN-100</td>
<td>100 mL</td>
</tr>
<tr>
<td>VHG-PMN-500</td>
<td>500 mL</td>
</tr>
</tbody>
</table>

Geranium Stock Solution, Aqueous

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHGP-GENF-100</td>
<td>100 mL</td>
</tr>
<tr>
<td>VHGP-GENF-500</td>
<td>500 mL</td>
</tr>
<tr>
<td>VHGP-GENF-100</td>
<td>100 mL</td>
</tr>
<tr>
<td>VHGP-GENF-500</td>
<td>500 mL</td>
</tr>
</tbody>
</table>

Manganese Stock Solution, Aqueous

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHGP-PMN-100</td>
<td>100 mL</td>
</tr>
<tr>
<td>VHGP-PMN-500</td>
<td>500 mL</td>
</tr>
</tbody>
</table>

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