

# General Organic Compounds Screen

## Our Services

The Toxicology Section offers screening of a wide variety of matrices for pesticides, human and veterinary drugs, industrial products, plant toxins and other natural products. Extracts are run by Gas Chromatography-Mass Spectrometry (GC/MS), and the mass spectral fingerprints of isolated peaks are compared to libraries containing up to 500,000 compounds. A professional interpretation is provided along with a list of compounds of concern.



## Sample Submission

Acceptable specimens include liver, kidney, other tissues, blood, serum, plasma, stomach or rumen contents, bait, brain, fat, feed, plants, milk, urine, hair and water. Minimal sample amounts are: tissue/feed/bait/stomach & rumen contents - 20 g; water - 1 L; urine - 10 mL; serum/blood - 2 mL; milk - 20 mL; fat - 2 g. Package samples individually in leakproof containers and submit with ice packs. Clients can request the qualitative screen (order code 70006) but also have the option to request Quantification (order code 70055). In addition, should clients require further confirmation of organic compound screen results, standards of compounds not in our current collection can be purchased and run alongside for an additional charge. Provide a concise history with the Toxicology submission form, and list any compounds of concern.

## Flexible and Versatile

Common requests for the Organic Compound Screen involve exposures to organophosphates, carbamates, permethrins, euthanasia drugs, veterinary drugs, drugs of abuse, etc. Our Toxicology lab has at its disposal two GC/MS instruments as well as an Electrospray-Liquid Chromatograph MS (LC/MS) that can be applied to various analytical situations, including special projects involving specific compounds. Urine, blood, and vomit are typically the preferred antemortem samples in cases involving poisonings, whereas stomach contents and liver are typically most useful samples postmortem. Analysis of feed, water and plants may also be useful depending on the situation.

For more information, please contact the Toxicology lab at 517.353.1683, or visit our website at [animalhealth.msu.edu](http://animalhealth.msu.edu).

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Diagnostic Center for Population and Animal Health  
Protecting Human and Animal Health | [animalhealth.msu.edu](http://animalhealth.msu.edu)  
4125 Beaumont Road, Lansing, MI 48910 | PH: 517.353.1683 | FX: 517.353.5096

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DCPAH is a full-service veterinary diagnostic laboratory, fully accredited by the AAVLD for all species through 2017.

### Sample Submission Forms

Visit our website at [animalhealth.msu.edu](http://animalhealth.msu.edu) to access our most current submittal forms. Customized forms preprinted with your clinic information are also available at no cost via the Product Order Form.

### Unbeatable Shipping

DCPAH offers a variety of shipping options. Our mailers comply with U.S. Postal Service, FedEx, UPS, and DHL regulations. **All UPS mailers include prepaid overnight weekday delivery.** All U.S. Postal Service mailers include prepaid delivery; delivery time will vary depending on your location.



### Order Mailing Supplies

Individual, insulated, and biopsy mailers are available. Contact us at 517.353.1683 or complete the Product Order Form available online at [animalhealth.msu.edu](http://animalhealth.msu.edu).

### Packaging and Mailing Samples

For shipping recommendations for individual tests, please refer to the information provided at [animalhealth.msu.edu](http://animalhealth.msu.edu) under "Available Tests."

### Speak Directly to Experts

Our veterinary professionals are available for consultation and can help you interpret your test results to better manage the health of animals entrusted to you.



### Get Results by Email and Online

Had it with the fax machine? Contact us at 517.353.1683 to have results delivered by email.

All DCPAH clients also have free, quick access to view results online through WebView. Reports are posted to the web hourly. Visit [animalhealth.msu.edu](http://animalhealth.msu.edu) and click "Log In" to request access to your diagnostic results.

### Expect Quality in Testing and Service

DCPAH is a leader in establishing technical guidelines for public veterinary diagnostic laboratories in the United States and maintains a quality assurance team dedicated to promoting accuracy and reliability.



**Customer Service Hours**  
Monday through Friday, 7:30 a.m. to 5:30 p.m. EST

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