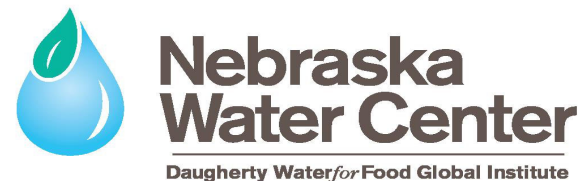


Water Sciences Laboratory

Analyte/Protocol Price List

2019



Environmental :: Solids

Nebraska Water Center, a part of the
Robert B. Daugherty Water for Food Global Institute at the University of Nebraska
 e:dsnow1.unl.edu | p: 1 402.472.7539 | f: 1 402.472.9599 | c: 1 402.304.3748

Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
Agricultural herbicides in soil Protocol ID: 06_01_02 Reference: Huang, L. Q. (1989), "Simultaneous determination of alachlor, metolachlor, atrazine, and simazine in water and soil by isotope dilution gas chromatography/mass spectrometry", <i>J. Assoc. Off. Anal. Chem</i> 72(2), 349-354. Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	Acetochlor Alachlor Atrazine Butylate Chlorothalonil Cyanazine DEA DIA Dimethenamid EPTC Gravametric Moisture (g/g) Metolachlor Metribuzin Norflurazon Pendamethalin Permethrin Prometon Propachlor Propazine Simazine Tefluthrin Trifluralin	0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g Pending 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g	\$132.00	\$105.60
Chlorinated pesticides in soil Protocol ID: 06_02_02 Reference: Lopez-Avila, V.; Young, R.; Beckert, W. F. (1994), "Microwave-Assisted Extraction of Organic Compounds from Standard Reference Soils and Sediments", <i>Anal. Chem.</i> 66, 1097-1106.	4,4-DDE 4,4-DDT α-BHC Aldrin β-BHC δ-BHC Dieldrin	5 ng/g 5 ng/g 5 ng/g 5 ng/g 5 ng/g 5 ng/g 5 ng/g	\$132.00	\$105.60

Turnaround times are subject to existing sample queues.

Reporting Limits are subject to verification

* = protocol cost is per analyte

& = add digestion cost of \$8/sample

Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
(2011), "EPA 8270 Analysis of Semivolatile Organic Compounds by Combined Gas Chromatography/Mass Spectrometry (GC/MS)". Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	γ-BHC (Lindane) Heptachlor Trifluralin	5 ng/g 5 ng/g 5 ng/g		
Semi-volatile organic compounds in soil Protocol ID: 06_03_02 Reference: Martinez, E.; Gros, M.; Lacorte, S; Barcelo, D. (2004), "Simplified procedures for the analysis of polycyclic aromatic hydrocarbons in water, sediments, and mussels", <i>J. Chromatogr. A</i> 1047 , 181-188. Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	2-Chloronaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[ghi]perylene Benzo[k]fluoranthene Carbazole Chrysene Dibenz[a,h]anthracene Dibenzofuran Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene	0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g	\$132.00	\$105.60
Insecticides and Fungicides in soil Protocol ID: 06_05_02 Reference: Hladik, M. L.; Kuivila, K. M. (2009), "Assessing the Occurrence and Distribution of Pyrethroids in Water and Suspended Sediments", <i>J. Agric. Food Chem.</i> 57 (19), 9079-9085. (1992), "EPA 614 The Determination of Organophosphorus Pesticides in Municipal and Industrial Wastewater The Determination of Organophosphorus Pesticides in Municipal and Industrial Wastewater".	Acetochlor Atrazine Bifenthrin Boscalid Carbofuran Chlorpyrifos Cyhalothrin lambda Cypermethrin Cyprodinil DEA Deltamethrin	0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g	\$132.00	\$105.60

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Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
	Testosterone Trendione Water Content	0.2 ng/g 0.2 ng/g 1 ng/g		
Neonicotinoid/strobularin pesticides in soil Protocol ID: 15_02_02 Reference: Magalhaes, L. C.; Hunt, T. E.; Siegfried, B. D. (2009), "Efficacy of Neonicotinoid Seed Treatments to Reduce Soybean Aphid Populations Under Field and Controlled Conditions in Nebraska", <i>J. Econ. Entomol.</i> 102 (1), 187-195. Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	Acetamiprid Azoxystrobin Clothianidin Dimethoate Dinotefuran Gravametric Moisture (g/g) Imidacloprid Metalaxyl Picoxystrobin Pyraclostrobin Thiacloprid Thiamethoxam Trifloxystrobin	Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending	\$275.00	\$220.00
Pharmaceutical and personal care products (PPCPS) in soil Protocol ID: 15_03_02 Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS". Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	Gemfibrozil Ibuprofen Naproxen Triclosan	0.5 ng/g 0.5 ng/g 0.5 ng/g 0.5 ng/g	\$275.00	\$220.00
Veterinary pharmaceuticals in soil Protocol ID: 15_04_02 Reference: Aga, D. S.; O'Connor, S.; Ensley, S.; Payero, J. O.; Snow, D.; Tarkalson, D. (2005), "Determination of the persistence of tetracycline antibiotics and their degradates in manure-amended soil using enzyme-linked immunosorbent assay and liquid chromatography-mass spectrometry", <i>J. Agric. Food Chem.</i> 53 (18), 7165-7171.	Chlortetracycline Lincomycin Penicillin G Penillic Acid Tiamulin Water Content	Pending Pending Pending Pending Pending Pending	\$275.00	\$220.00

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Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
<p>Yang, S.; Cha, J.; Carlson, K. (2004), "Quantitative determination of trace concentrations of tetracycline and sulfonamide antibiotics in surface water using solid-phase extraction and liquid chromatography/ion trap tandem mass spectrometry", <i>Rapid Commun. Mass Sp.</i> 18, 2131-2145.</p> <p>Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks</p>				
<p>Macrolides/Penicillin Pharmaceuticals in soil Protocol ID: 15_05_02</p> <p>Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks</p>	<p>Ampicillin Ceftiofur Erythromycin Erythromycin Anhydro- Moisture Content Monensin Novobiocin Penicillin G Penillic acid Tiamulin Tylosin Virginiamycin M1</p>	<p>Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending</p>	<p>\$275.00</p>	<p>\$220.00</p>
<p>Sulfas, TCs, macrolides in soils Protocol ID: 15_10_02</p> <p>Reference: Jacobsen, A. M.; Halling-Sorensen, B.; Ingerslev, F.; Honore Hansen, S. (2004), "Simultaneous extraction of tetracycline, macrolide and sulfonamide antibiotics from agricultural soils using pressurised liquid extraction, followed by solid-phase extraction and liquid chromatography–tandem mass spectrometry", <i>J. Chromatogr. A</i> 1038(1-2), 157-170.</p> <p>Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks</p>	<p>Chlortetracycline Doxycycline Erythromycin Erythromycin Anhydro- Lincomycin Monensin Oxytetracycline Ractopamine Sulfachloropyridazine Sulfadimethoxine Sulfamerazine Sulfamethazine Sulfamethizole Sulfamethoxazole Sulfathiazole Tetracycline Tiamulin</p>	<p>0.05 ng/g Pending 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g 0.05 ng/g</p>	<p>\$275.00</p>	<p>\$220.00</p>

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Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
	Tylosin Virginiamycin Water Content	0.05 ng/g 0.05 ng/g Pending		
Pharmaceutical and Illicit Compounds in soils Protocol ID: 16_01_02 Reference: Kasprzyk-Hordern, B.; Dinsdal, R. M.; Guwy, A. J. (2007), "Multi-residue method for the determination of basic/neutral pharmaceuticals and illicit drugs in surface water by solid-phase extraction and ultra performance liquid chromatography–positive electrospray ionisation tandem mass spectrometry", <i>J. Chromatogr. A</i> 1161 (1-2), 132-145. Berset, J.; Brenneisen, R.; Mathieu, C. (2010), "Analysis of illicit and illicit drugs in waste, surface and lake water samples using large volume direct injection high performance liquid chromatography – Electrospray tandem mass spectrometry (HPLC–MS/MS)", <i>Chemosphere</i> 81 (7), 859-866. Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	1,7-Dimethylxanthine Acetaminophen Amphetamine Caffeine Carbamazepine Cotinine Diphenhydramine Hydrocodone MDA MDMA Metaxalone Methadone Methamphetamine Morphine Oxycodone Phenazone Sulfachloropyridazine Sulfamethazine Sulfamethoxazole Temazepam Thiabendazole Trimethoprim	0.01 ng/g 0.01 ng/g 0.01 ng/g 0.01 ng/g 0.01 ng/g 0.01 ng/g 0.01 ng/g Pending 0.01 ng/g 0.01 ng/g Pending Pending 0.01 ng/g 0.01 ng/g Pending Pending 0.01 ng/g 0.01 ng/g Pending 0.01 ng/g 0.01 ng/g	\$275.00	\$220.00
Pharmaceutical and Illicit Compounds in plants Protocol ID: 16_01_06 Sample Container: Paper bag for plants or 125 mL glass amber bottle for other types Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	1,7-Dimethylxanthine Acetaminophen Amphetamine Caffeine Carbamazepine Cotinine Diphenhydramine Hydrocodone MDA MDMA Metaxalone Methadone Methamphetamine	Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending	\$110.00	\$88.00

Turnaround times are subject to existing sample queues.

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Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
	Morphine Oxycodone Phenazone Sulfachloropyridazine Sulfamethazine Sulfamethoxazole Temazepam Thiabendazole Trimethoprim	Pending Pending Pending Pending Pending Pending Pending Pending Pending		
Vet pharmaceuticals in soils Protocol ID: 16_02_02 Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	Chlortetracycline Enrofloxacin Florfenicol Lincomycin Moisture Content Monensin Oxytetracycline Ractopamine Sulfadiazine Sulfadimethoxine Sulfamerazine Sulfamethazine Sulfamethizole Sulfamethoxazole Sulfathiazole Tetracycline Tildipirosin Trimethoprim Tulathromycin A	0.4 ng/g Pending Pending 0.2 ng/g Pending Pending 0.4 ng/g 0.3 ng/g 0.2 ng/g 0.2 ng/g 0.1 ng/g 0.1 ng/g 0.2 ng/g 0.1 ng/g 0.5 ng/g 0.4 ng/g Pending 0.3 ng/g Pending	\$275.00	\$220.00
NPB - Vet pharmaceuticals in soils Protocol ID: 16_03_02 Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	Chlortetracycline Lincomycin Moisture Content Neotame Penicillin G Penillic acid Tiamulin	Pending Pending Pending Pending Pending Pending Pending	\$275.00	\$220.00

Turnaround times are subject to existing sample queues.

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& = add digestion cost of \$8/sample