

Water Sciences Laboratory

Analyte/Protocol Price List

2024



Nebraska Water Center

Daugherty Water for Food Global Institute

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 | c: 1 402.304.3748

Environmental :: Solids

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
<p>Agricultural Herbicides/Insecticides (Solids) Protocol ID: 06_01_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>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.</p>	Acetochlor Alachlor Atrazine Butylate Chlorothalonil Cyanazine DEA DIA Dimethenamid EPTC Metolachlor Metribuzin Norflurazon Pendamethalin Permethrin Prometon Propachlor Propazine Simazine Tefluthrin Trifluralin	0.03 ng/g 0.03 ng/g 0.04 ng/g 0.09 ng/g 0.08 ng/g 0.1 ng/g 0.03 ng/g 0.1 ng/g 0.04 ng/g 0.09 ng/g 0.04 ng/g 0.02 ng/g 0.08 ng/g 0.02 ng/g 0.06 ng/g 0.05 ng/g 0.07 ng/g 0.04 ng/g 0.03 ng/g 0.08 ng/g 0.03 ng/g	\$138.60	\$110.88
<p>Chlorinated Insecticides (Solids) Protocol ID: 06_02_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>	4,4-DDE 4,4-DDT α -BHC a-Chlordane Aldrin β -BHC δ -BHC Dieldrin	0.6 ng/g 2 ng/g 1.0 ng/g 0.8 ng/g 0.6 ng/g 3 ng/g 3 ng/g 5 ng/g	\$138.60	\$110.88

Turnaround times are subject to existing sample queues Reporting Limits are subject to verification

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
<p>References: 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.</p> <p>(2011), "EPA 8270 Analysis of Semivolatile Organic Compounds by Combined Gas Chromatography/Mass Spectrometry (GC/MS)".</p>	<p>Endosulfan I Endosulfan II Endosulfan sulfate Endrin Endrin aldehyde Endrin ketone γ-BHC (Lindane) g-Chlordane Heptachlor Heptachlor epoxide B Methoxychlor Trifluralin</p>	<p>2 ng/g 3 ng/g 4 ng/g 5 ng/g 4 ng/g 4 ng/g 0.9 ng/g 0.7 ng/g 3 ng/g 0.7 ng/g 3 ng/g 0.4 ng/g</p>		
<p>Semi-Volatile Organic Compounds (SVOCs) (Solids) Protocol ID: 06_03_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>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.</p>	<p>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</p>	<p>1 ng/g 2 ng/g 1 ng/g 1 ng/g 0.7 ng/g 2 ng/g 4 ng/g 2 ng/g 2 ng/g 2 ng/g 1 ng/g 0.7 ng/g 2 ng/g 2 ng/g 2 ng/g 1 ng/g 1 ng/g 2 ng/g 2 ng/g 2 ng/g 0.8 ng/g 1 ng/g</p>	<p>\$138.60</p>	<p>\$110.88</p>

Turnaround times are subject to existing sample queues Reporting Limits are subject to verification

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
<p>Distribution of Pyrethroids in Water and Suspended Sediments", <i>J. Agric. Food Chem.</i> 57 (19), 9079-9085.</p> <p>(1992), "EPA 614 Determination of Organophosphorus Pesticides in Municipal and Industrial Wastewater".</p>	<p>DEA Deltamethrin DIA Diazinon Fludioxonil Malathion Methidathion Metolachlor Metribuzin Parathion ethyl Parathion methyl Pendimethalin Permethrin Propazine Pyrimethanil Quinoxyfen Tebuconazole Tefluthrin Triadimefon</p>	<p>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 0.7 ng/g 0.4 ng/g 0.2 ng/g 0.3 ng/g 0.2 ng/g 0.3 ng/g 0.2 ng/g 0.10 ng/g 0.3 ng/g 0.9 ng/g 0.7 ng/g 0.4 ng/g</p>		
<p>Nitrapyrin (Solids) Protocol ID: 06_18_02</p> <p>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</p>	<p>Butylate EPTC Nitrapyrin</p>	<p>0.05 ng/g 0.05 ng/g 0.05 ng/g</p>	<p>\$138.60</p>	<p>\$110.88</p>
<p>Glyphosate/AMPA (Solids) Protocol ID: 19_06_02</p> <p>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</p> <p>References: Zhong-Xian, G.; Qiantao, C.; Zhaoguang, Y (2005), "Determination of</p>	<p>AMPA Glufosinate Glyphosate Inorganic P</p>	<p>Pending Pending Pending Pending</p>	<p>\$130.00</p>	<p>\$104.00</p>

Turnaround times are subject to existing sample queues Reporting Limits are subject to verification

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
<p>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.</p>	<p>Dinotefuran Fluoxastrobin Imidacloprid Imidacloprid desnitro Imidacloprid Olefin Imidacloprid urea Indoxacarb Metalaxyl Orysastrobin Picoxystrobin Pyraclostrobin Sulfoxaflor Thiacloprid Thiamethoxam Thiamethoxam urea Trifloxystrobin</p>	<p>0.2 ng/g Pending 0.04 ng/g 0.2 ng/g 0.2 ng/g 0.2 ng/g 0.08 ng/g 0.01 ng/g Pending 0.03 ng/g 0.03 ng/g 0.02 ng/g 0.02 ng/g 0.02 ng/g 0.02 ng/g 0.07 ng/g</p>		
<p>Oxanilic Acids/Ethanesulfonic Acids (OAESA) (Solids) Protocol ID: 20_06_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: 2-3 Weeks</p>	<p>Hydroxychlorthalonil Acetochlor ESA Acetochlor OA Alachlor ESA Alachlor OA Aminopyralid Metolachlor ESA Metolachlor OA Propachlor ESA</p>	<p>0.4 ng/g 1 ng/g 0.3 ng/g 1 ng/g 0.2 ng/g 0.2 ng/g 0.3 ng/g 0.3 ng/g 0.2 ng/g</p>	\$288.80	\$231.04
<p>Perfluoronated Acids (PFAS) EPA 537.1 (Solids) Protocol ID: 20_08_02</p> <p>Sample Container: 125 mL polyethylene bottle Sample Size: 50 gm Preservation: Cool, < 6°C Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks</p> <p>Reference: (2018), "EPA 537.1 Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase</p>	<p>11CI-PF3OUdS 9CI-PF3ONS ADONA HFPO-DA NEtFOSAA NMeFOSAA PFBS PFDA PFDoA PFHpA PFHxA PFHxS</p>	<p>7 ng/g 6 ng/g 4 ng/g 7 ng/g 2 ng/g 8 ng/g 3 ng/g 7 ng/g 10 ng/g 7 ng/g 4 ng/g 5 ng/g</p>	\$288.80	\$231.04

Turnaround times are subject to existing sample queues Reporting Limits are subject to verification

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".	PFNA PFOA PFOS PFTA PFTTrDA PFUnA	3 ng/g 5 ng/g 6 ng/g 8 ng/g 4 ng/g 3 ng/g		
Azole Fungicides and Abamectin (Solids) Protocol ID: 20_09_02 Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 2-3 Weeks	Abamectin NH4 Brassinazole Cyproconazole Desthio-Prothioconazole Difenoconazole Fluconazole Ipconazole Isavuconazole Itraconazole Metconazole Posaconazole Propiconazole Prothioconazole Tebuconazole Thiabendazole	2 ng/g 0.05 ng/g 0.10 ng/g 0.10 ng/g 0.08 ng/g 0.06 ng/g 0.1 ng/g 0.05 ng/g 0.5 ng/g 0.07 ng/g 0.2 ng/g 0.04 ng/g 0.07 ng/g 0.06 ng/g 0.05 ng/g	\$288.80	\$231.04
EPA 1694 Group 1 (Human Usage) (Solids) Protocol ID: 20_11_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 Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	1,7-Dimethylxanthine Acetaminophen Ampicillin Azithromycin Caffeine Carbamazepine Ciprofloxacin Clarithromycin Clinafloxacin Codeine Cotinine Danofloxacin Dehydronifedipine Digoxigenin Digoxin Diltiazem Diphenhydramine	9 ng/g 1 ng/g 1 ng/g 1 ng/g 18 ng/g 0.8 ng/g 1 ng/g 0.3 ng/g 3 ng/g 3 ng/g 0.4 ng/g 0.6 ng/g 1 ng/g 0.6 ng/g 19 ng/g 7 ng/g 0.6 ng/g	\$288.80	\$231.04

Turnaround times are subject to existing sample queues Reporting Limits are subject to verification

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	Enrofloxacin Erythromycin Flumequine Fluoxetine Lincomycin Lomefloxacin Miconazole Norfloxacin Norgestimate Ofloxacin Ormetoprim Oxacillin Penicillin G Penicillin V Penillic Acid Phenazone Roxithromycin Sarafloxacin Sucralose Sulfachlorpyridazine Sulfadiazine Sulfadimethoxine Sulfamerazine Sulfamethazine Sulfamethiazole Sulfamethoxazole Sulfanilamide Sulfathiazole Thiabendazole Trimethoprim	0.9 ng/g 0.6 ng/g 0.9 ng/g 1 ng/g 0.7 ng/g 0.4 ng/g 0.4 ng/g 1 ng/g 0.6 ng/g 0.7 ng/g 1 ng/g 5 ng/g 5 ng/g 9 ng/g 2 ng/g 2 ng/g 6 ng/g 0.6 ng/g 6 ng/g 2 ng/g 3 ng/g 2 ng/g 3 ng/g 1 ng/g 1 ng/g 0.7 ng/g 6 ng/g 3 ng/g 0.7 ng/g 1 ng/g		
EPA 1694 Group 2 (Solids) Protocol ID: 20_12_02 Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Cool, < 6°C Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	Anhydrochlortetracycline (ACTC) Anhydrotetracycline (ATC) Chlortetracycline (CTC) Demeclocycline Doxycycline Epianhydrochlortetracycline (EACTC) Epichlortetracycline (ECTC) Epioxytetracycline (EOTC)	Pending Pending Pending Pending Pending Pending Pending Pending	\$283.50	\$226.80

Turnaround times are subject to existing sample queues Reporting Limits are subject to verification

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	Epitetracycline Isochlortetracycline (ICTC) Minocycline Oxytetracycline (OTC) Tetracycline (TC)	Pending Pending Pending Pending Pending		
EPA 1694 Group 3 (Solids) Protocol ID: 20_13_02 Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Cool, < 6°C Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	Gemfibrozil Ibuprofen Naproxen Triclocarban Triclosan Warfarin	Pending Pending Pending Pending Pending Pending	\$283.50	\$226.80
EPA 1694 Group 4 (Solids) Protocol ID: 20_14_02 Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Cool, < 6°C Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	Albuterol Cimetidine Metformin Ranitidine	Pending Pending Pending Pending	\$283.50	\$226.80
Atrazine Metabolites and Nitrosoatrazine (Solids) Protocol ID: 20_16_02 Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 2 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 2-3 Weeks	Atrazine Atrazine Mercapturate DDA DEA DIA N-nitrosoatrazine	1 ng/g 0.7 ng/g 2 ng/g 1 ng/g 1 ng/g 0.1 ng/g	\$288.80	\$231.04

Turnaround times are subject to existing sample queues Reporting Limits are subject to verification

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	PFUnA	Pending		
<p>EPA 1694 Group 1 (Veterinary Usage) (Solids) Protocol ID: 20_21_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>Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".</p>	<p>Ampicillin Azithromycin Carbadox Cefotaxime Ceftiofur Ciprofloxacin Clarithromycin Danofloxacin DCCD Erythromycin Florfenicol Lincomycin Monensin Novobiocin Ormetoprim Oxacillin Oxolinic acid Penicillin G Penicillin V Penillic Acid Roxithromycin Sulfachlorpyridazine Sulfadiazine Sulfadimethoxine Sulfamerazine Sulfamethazine Sulfamethiazole Sulfamethoxazole Sulfanilamide Sulfathiazole Thiabendazole Tiamulin Trimethoprim Tylosin Virginiamycin</p>	<p>1 ng/g 1 ng/g 1 ng/g 25 ng/g 8 ng/g 1 ng/g 0.4 ng/g 0.6 ng/g 8 ng/g 0.6 ng/g 6 ng/g 0.7 ng/g 7 ng/g Pending 1 ng/g 5 ng/g 0.6 ng/g 5 ng/g 9 ng/g 2 ng/g 6 ng/g 2 ng/g 3 ng/g 2 ng/g 3 ng/g 1 ng/g 1 ng/g 0.7 ng/g 6 ng/g 3 ng/g 0.7 ng/g 0.8 ng/g 1 ng/g 0.5 ng/g 66 ng/g</p>	<p>\$283.50</p>	<p>\$226.80</p>

Turnaround times are subject to existing sample queues Reporting Limits are subject to verification

