Water Sciences Laboratory Analyte/Protocol Price List 2021

Nebraska Water Center
Daugherty Water *for* Food Global Institute

Environmental :: Solids

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Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
Agricultural herbicides in solids **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", *J. Assoc. Off. Anal. Chem* **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	**$138.60**	$110.88
Chlorinated pesticides in solids **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", *Anal. Chem.* **66**, 1097-1106.	**4,4-DDE** **4,4-DDT** **α-BHC** **Aldrin** **ß-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	**$138.60**	$110.88

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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 solids **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", *J. Chromatogr. A* **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 0.05 ng/g	**$138.60**	$110.88
Insecticides and Fungicides in solids **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", *J. Agric. Food Chem.* **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	**$138.60**	$110.88

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Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
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	**DIA**	0.5 ng/g		
	Diazinon	0.5 ng/g		
	Fludioxonil	0.5 ng/g		
	Malathion	0.5 ng/g		
	Methidathion	0.5 ng/g		
	Methomyl	0.5 ng/g		
	Metolachlor	0.5 ng/g		
	Metribuzin	0.5 ng/g		
	Parathion ethyl	0.5 ng/g		
	Parathion methyl	0.5 ng/g		
	Pendimethalin	0.5 ng/g		
	Permethrin	0.5 ng/g		
	Propazine	0.5 ng/g		
	Pyrimethanil	0.5 ng/g		
	Quinoxyfen	0.5 ng/g		
	Tebuconazole	0.5 ng/g		
	Tefluthrin	0.5 ng/g		
	Triadimefon	0.5 ng/g		
	Gravametric Moisture (g/g)	Pending		
Steroids in soil **Protocol ID:** 15_01_02 **Reference:** Snow, D. D.; Damon-Powell, T.; Onanong, S.; Cassada, D. A. (2013), "Sensitive and simplified analysis of natural and synthetic steroids in water and solids using on-line solid phase extraction and microwave-assisted solvent extraction coupled to liquid chromatography tandem mass spectrometry atmospheric pressure photoionization", *Anal. Bioanal. Chem.* **405**(5), 1759-1771. **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	**17α-Hydroxyprogesterone**	0.2 ng/g	**$288.80**	$231.04
	4-Androstenedione	0.2 ng/g		
	a-Estradiol	0.2 ng/g		
	Androstanedienedione	0.2 ng/g		
	Androsterone	0.2 ng/g		
	a-Trenbolone	0.2 ng/g		
	a-Zearalanol	0.2 ng/g		
	a-Zearalenol	0.2 ng/g		
	b-Estradiol	0.2 ng/g		
	b-Trenbolone	0.2 ng/g		
	b-Zearalanol	0.2 ng/g		
	b-Zearalenol	0.2 ng/g		
	Epitestosterone	0.2 ng/g		
	Estriol	0.2 ng/g		
	Estrone	0.2 ng/g		
	Ethynyl Estradiol	0.2 ng/g		
	Melengesterol Acetate	0.2 ng/g		
	Progesterone	0.2 ng/g		
	Testolactone	0.2 ng/g		

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Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
	Testosterone	0.2 ng/g		
	Trendione	0.2 ng/g		
	Water Content	1 ng/g		
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**	0.5 ng/g	**$288.80**	$231.04
	Ibuprofen	0.5 ng/g		
	Naproxen	0.5 ng/g		
	Triclosan	0.5 ng/g		
Macrolides/Penicillin Pharmaceuticals in soil **Protocol ID:** 15_05_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	**Ampicillin**	Pending	**$288.80**	$231.04
	Ceftiofur	Pending		
	DCCD	Pending		
	Enrofloxacin	Pending		
	Erythromycin	Pending		
	Erythromycin Anhydro-	Pending		
	Florfenicol	Pending		
	Moisture Content	Pending		
	Monensin	Pending		
	Monensin NH3	Pending		
	Novobiocin	Pending		
	Penicillin G	Pending		
	Penillic acid	Pending		
	Tiamulin	Pending		
	Tildipirosin	Pending		
	Tulathromycin	Pending		
	Tylosin	Pending		
	Virginiamycin M1	Pending		

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Protocol	Analyte	Reporting Level	Protocol Cost	NU Cost (20% discount)
Sulfas, TCs, macrolides in soils **Protocol ID:** 15_10_02 **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", *J. Chromatogr. A* **1038**(1-2), 157-170. **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	**%Sulfachloropyridazine**	Pending	**$288.80**	$231.04
	Chlortetracycline	0.05 ng/g		
	Doxycycline	Pending		
	Erythromycin	0.05 ng/g		
	Erythromycin Anhydro-	0.05 ng/g		
	Lincomycin	0.05 ng/g		
	Monensin	0.05 ng/g		
	Oxytetracycline	0.05 ng/g		
	Ractopamine	0.05 ng/g		
	Sulfachloropyridazine	0.05 ng/g		
	Sulfadimethoxine	0.05 ng/g		
	Sulfamerazine	0.05 ng/g		
	Sulfamethazine	0.05 ng/g		
	Sulfamethizole	0.05 ng/g		
	Sulfamethoxazole	0.05 ng/g		
	Sulfathiazole	0.05 ng/g		
	Tetracycline	0.05 ng/g		
	Tiamulin	0.05 ng/g		
	Tylosin	0.05 ng/g		
	Virginiamycin	0.05 ng/g		
	Water Content	Pending		
Neonicotinoid/strobularin pesticides in soil **Protocol ID:** 20_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", *J. Econ. Entomol.* **10**2(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	**6-chloronicotinic acid**	Pending	**$288.80**	$231.04
	6-chloronicotinic aldehyde	Pending		
	6-chloro-N-methylnicotinamide	Pending		
	6-hydroxynicotinic acid	Pending		
	Acetamiprid	Pending		
	Azoxystrobin	Pending		
	Clothianidin	Pending		
	Dimethoate	Pending		
	Dinotefuran	Pending		
	Imidacloprid	Pending		
	Imidacloprid desnitro	Pending		
	Imidacloprid Olefin	Pending		
	Imidacloprid urea	Pending		
	Indoxacarb	Pending		
	Metalaxyl	Pending		
	Picoxystrobin	Pending		
	Pyraclostrobin	Pending		

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	Sulfoxaflor	Pending		
	Thiacloprid	Pending		
	Thiamethoxam	Pending		
	Thiamethoxam urea	Pending		
	Trifloxystrobin	Pending		
Perfluoronated acids (PFAS) in solids **Protocol ID:** 20_08_02 **Sample Container:** Passive sampler (POCIS) **Sample Size:** Pending **Preservation:** Cool, < 6ºC **Holding Time:** 60 Days **Estimated Turnaround Time:** 6-8 Weeks	**6:2 FTS**	Pending	**$288.80**	$231.04
	PFBA	Pending		
	PFBS	Pending		
	PFHA	Pending		
	PFHxA	Pending		
	PFHxS	Pending		
	PFOA	Pending		
	PFOS	Pending		
EPA 1694 Group 1 in solids (human usage) **Protocol ID:** 20_11_02 **Reference:** (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS". **Sample Container:** Pending **Sample Size:** Pending **Preservation:** Frozen **Holding Time:** 60 Days **Estimated Turnaround Time:** 6-8 Weeks	**1,7-Dimethylxanthine**	Pending	**$288.80**	$231.04
	Acetaminophen	Pending		
	Ampicillin	Pending		
	Azithromycin	Pending		
	Caffeine	Pending		
	Carbamazepine	Pending		
	Cefotaxime	Pending		
	Ciprofloxacin	Pending		
	Clarithromycin	Pending		
	Clinafloxacin	Pending		
	Codeine	Pending		
	Cotinine	Pending		
	Danofloxacin	Pending		
	Dehydronifedipine	Pending		
	Digoxigenin	Pending		
	Digoxin	Pending		
	Diltiazem	Pending		
	Diphenhydramine	Pending		
	Enrofloxacin	Pending		
	Erythromycin	Pending		
	Flumequine	Pending		
	Fluoxetine	Pending		
	Lincomycin	Pending		
	Lomefloxicin	Pending		
	Miconazole	Pending		

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	Norfloxacin	Pending		
	Norgestimate	Pending		
	Ofloxacin	Pending		
	Ormetoprim	Pending		
	Oxacillin	Pending		
	Penicillin G	Pending		
	Penicillin V	Pending		
	Penillic Acid	Pending		
	Phenazone	Pending		
	Roxithromycin	Pending		
	Sarafloxacin	Pending		
	Sucralose	Pending		
	Sulfachlorpyridazine	Pending		
	Sulfadiazine	Pending		
	Sulfadimethoxine	Pending		
	Sulfamerazine	Pending		
	Sulfamethazine	Pending		
	Sulfamethiazole	Pending		
	Sulfamethoxazole	Pending		
	Sulfanilamide	Pending		
	Sulfathiazole	Pending		
	Thiabendazole	Pending		
	Trimethoprim	Pending		
EPA 1694 Group 1 in solids (vet usage) **Protocol ID:** 20_21_02 **Reference:** (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS". **Sample Container:** Pending **Sample Size:** Pending **Preservation:** Frozen **Holding Time:** 60 Days **Estimated Turnaround Time:** 6-8 Weeks	**%13C-DEA**	Pending	**$283.50**	$226.80
	%Oleandomycin	Pending		
	%Orphenadrine	Pending		
	Ampicillin	Pending		
	Azithromycin	Pending		
	Carbadox	Pending		
	Cefotaxime	Pending		
	Ceftiofur	Pending		
	Ciprofloxacin	Pending		
	Clarithromycin	Pending		
	Cloxcillin	Pending		
	Danofloxacin	Pending		
	DCCD	Pending		
	Erythromycin	Pending		
	Florfenicol	Pending		

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	Lincomycin	Pending		
	Monensin Na	Pending		
	Novobiocin	Pending		
	Ormetoprim	Pending		
	Oxacillin	Pending		
	Oxolinic acid	Pending		
	Penicillin G	Pending		
	Penicillin V	Pending		
	Penillic Acid	Pending		
	Roxithromycin	Pending		
	Sulfachlorpyridazine	Pending		
	Sulfadiazine	Pending		
	Sulfadimethoxine	Pending		
	Sulfamerazine	Pending		
	Sulfamethazine	Pending		
	Sulfamethiazole	Pending		
	Sulfamethoxazole	Pending		
	Sulfanilamide	Pending		
	Sulfathiazole	Pending		
	Thiabendazole	Pending		
	Tiamulin	Pending		
	Tildipirosin	Pending		
	Trimethoprim	Pending		
	Tulathromycin	Pending		
	Tylosin	Pending		
	Virginiamycin	Pending		

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