

Pesticides and Chemical Weapon Standards

Essential to agricultural productivity and general pest control, many pesticides have been found to be toxic to humans and animals, and as such have been banned from use in numerous countries. The Stockholm Convention has focused worldwide attention on analysis of the most toxic pesticides. CIL promotes the development of new isotope-labeled legacy and “new use” pesticides to support laboratories using IDMS for the most accurate analytical results.



Pesticide Standards

CIL continues to add to its already extensive inventory of isotopically labeled standards for pesticide and pesticide metabolite analysis. As a result of this development over the past few years, CIL can now present its standards by category, including organochlorine, organophosphorous, carbamate, triazine, or pyrethroid pesticide standards. You can still find the complete listing if you wish to scan through the comprehensive array of standards.

Chlorinated Cyclodiene Pesticide Standards

Chlorinated cyclodiene pesticides account for seven of the compounds governed by the Stockholm Convention. While production and use of these compounds is stringently regulated if not banned outright, their widespread use for decades and persistence in the environment ensures their presence in the environment and biota for years to come. CIL offers a comprehensive selection of the individual standards, as well as a growing list of convenient mixes.

Organochlorine Pesticide Standards

Organochlorinated pesticides, like chlorinated cyclodiene pesticides, are heavily represented in the list of compounds governed by the Stockholm Convention. Also, like chlorinated cyclodiene pesticides, their widespread use for decades and persistence in the environment ensures their presence in the environment and biota for years to come.

Organophosphate (OP) and Carbamate Insecticides

Organophosphates are a large class of contact insecticides that target the insect's nervous system by interfering with the enzyme acetylcholinesterase, disrupting nerve impulses and killing or disabling the insect. Organophosphate insecticides and chemical warfare nerve agents (such as sarin, tabun, soman, and VX) work in the same way, and metabolites of both groups are quite similar. Organophosphates have a cumulative toxic effect to wildlife, so multiple exposures to the chemicals amplifies the toxicity. Carbamates feature the carbamate ester functional group and kill insects by *reversibly* inactivating the enzyme acetylcholinesterase, similarly to organophosphate pesticides. They are, however, much less stable in the environment and break down rapidly.

Pyrethroid Insecticides

Pyrethroids are synthetic pesticides developed to mimic the effect of naturally occurring pyrethrins. In general, pyrethroids are low in toxicity to mammals and birds, however, they are potentially highly toxic to fish, have high arthropod toxicity, are fast acting, dissolve poorly in water, and break down quickly, especially in direct sunlight. Pyrethroids became popular as consumer insecticides in the 1990s as replacements for older pesticides, like diazinon and Dursban®, which were phased out for environmental and human-health reasons.

Neonicotinoid Pesticides

Neonicotinoids have received a lot of attention in the mainstream press as a possible cause of colony collapse disorder (CCD) in honeybees, which are critical pollinators in many agricultural environments where their viability enables billions of dollars of commerce each year. While CCD may also have other causes, analytical chemists have focused on neonicotinoid pesticides as a potential contributing factor. CIL has produced several neonicotinoid standards, including labeled standards with chloropyridylmethyl, chlorothiazolylmethyl, and tetrahydrofuranlylmethyl substituents, as well as major metabolites of those compounds.

Toxaphene Standards

CIL has put considerable effort into developing the first set of ¹³C-labeled toxaphene standards. The list of labeled and unlabeled standards (with Parlar congener #) continues to grow, so visit CIL's website and watch for future product announcements for more details. The new POPs toxaphene mixtures are ideal for researchers interested in primary investigations of the most prevalent congeners.

Triazine Herbicide and Metabolite Standards

Atrazine is one of the most widely used herbicides in the world. In recent years, studies on the correlation of physical and reproductive disorders in frogs with atrazine exposure has been a controversial topic. With CIL's comprehensive collection of carefully purified and prepared standards of atrazine and its many metabolites, researchers should have some powerful tools to refine their investigations.

Pesticide Standard Mixtures

New applications and increased testing by IDMS have led to the development of several pesticides mixtures being offered for the first time in this catalog. Our expanded POPs pesticide calibration series and related spiking mixtures contain all pesticides listed as Stockholm Convention POPs, including kepone (aka chlordecone), HCHs (including lindane), pentachlorobenzene, and endosulfan I and II. These solutions allow analysts to use preformulated mixtures for detection and quantification of the complete series of these important POPs.

Chemical Weapon Metabolite Standards

Often quite similar to metabolites of common pesticides, chemical weapons metabolite standards help researchers determine potential contamination from dangerous compounds, such as nerve agents and other toxic chemicals. Several metabolites, degradation byproducts, and others are represented in this section.

Chlorinated Cyclodiene Pesticide Standards

Catalog No.	Compound	Formula	Concentration	Amount
CLM-4725-1.2	Aldrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7441-1.2	Aldrin (unlabeled)	C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-8087-1.2	<i>cis</i> -Chlordane (α) (¹³ C ₁₀ , 99%)	*C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
NEW ULM-2419-1.2	<i>cis</i> -Chlordane (α) (unlabeled)	C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
ULM-2419-25			neat	25 mg
CLM-4792-1.2	<i>trans</i> -Chlordane (γ) (¹³ C ₁₀ , 99%)	*C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
ULM-2420-1.2	<i>trans</i> -Chlordane (γ) (unlabeled)	C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
NEW ULM-2420-25			neat	25 mg
CLM-4814-1.2	Chlordecone (kepone) (¹³ C ₁₀ , 99%)	*C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
ULM-2301-1.2	Chlordecone (kepone) (unlabeled)	C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
NEW ULM-2301-0.1			neat	0.1 g
CLM-4758-1.2	Chlordene (¹³ C ₁₀ , 99%)	*C ₁₀ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7443-1.2	Chlordene (unlabeled)	C ₁₀ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-4726-1.2	Dieldrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
ULM-7230-1.2	Dieldrin (unlabeled)	C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
CLM-6025-1.2	Endosulfan I (¹³ C ₉ , 99%)	*C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
DLM-2862-1.2	Endosulfan I (D ₄ , 97%)	C ₉ D ₄ H ₂ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
ULM-7447-1.2	Endosulfan I (unlabeled)	C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
CLM-6026-1.2	Endosulfan II (¹³ C ₉ , 99%)	*C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
ULM-7448-1.2	Endosulfan II (unlabeled)	C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
CLM-7531-1.2	Endosulfan sulfate (¹³ C ₉ , 99%)	*C ₉ H ₆ Cl ₆ O ₄ S	100 µg/mL in nonane	1.2 mL
ULM-7990-1.2	Endosulfan sulfate (unlabeled)	C ₉ H ₆ Cl ₆ O ₄ S	100 µg/mL in nonane	1.2 mL
CLM-4782-1.2	Endrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
ULM-7444-1.2	Endrin (unlabeled)	C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW CLM-4815-1.2	Endrin aldehyde (¹³ C ₁₂ , 99%)	*C ₁₂ H ₁₀ Cl ₆ O	100 µg/mL in nonane	1.2 mL
CLM-4815-50			neat	50 µg
NEW ULM-8958-1.2	Endrin aldehyde (unlabeled)	C ₁₂ H ₁₀ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW ULM-8958-50			neat	50 µg
NEW CLM-4816-1.2	Endrin ketone (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
CLM-4816-50			neat	50 µg
NEW ULM-8956-1.2	Endrin ketone (unlabeled)	C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW ULM-8956-50			neat	50 µg
CLM-4759-1.2	Heptachlor (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₇	100 µg/mL in nonane	1.2 mL
ULM-2424-1.2	Heptachlor (unlabeled)	C ₁₀ H ₅ Cl ₇	100 µg/mL in nonane	1.2 mL
NEW ULM-2424-0.1			neat	0.1 g
CLM-4734-1.2	<i>cis</i> -Heptachlor epoxide (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₇ O	100 µg/mL in nonane	1.2 mL
ULM-2425-1.2	<i>cis</i> -Heptachlor epoxide (unlabeled)	C ₁₀ H ₅ Cl ₇ O	100 µg/mL in nonane	1.2 mL
NEW ULM-2425-0.1			neat	0.1 g
ULM-7869-1.2	<i>trans</i> -Heptachlor epoxide (unlabeled)	C ₁₀ H ₅ Cl ₇ O	100 µg/mL in nonane	1.2 mL
CLM-4727-1.2	Isodrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7442-1.2	Isodrin (unlabeled)	C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-4814-1.2	Kepone (chlordecone) (¹³ C ₁₀ , 99%)	*C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
ULM-2301-1.2	Kepone (chlordecone) (unlabeled)	C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
NEW ULM-2301-0.1			neat	0.1 g
CLM-4813-1.2	Mirex (¹³ C ₁₀ , 99%)	*C ₁₀ Cl ₁₂	100 µg/mL in nonane	1.2 mL
NEW CLM-2078-1	Mirex (¹³ C ₈ , 99%)	*C ₈ C ₂ Cl ₁₂	200 µg/mL in toluene	1 mL
ULM-2427-1.2	Mirex (unlabeled)	C ₁₀ Cl ₁₂	100 µg/mL in nonane	1.2 mL
CLM-4811-1.2	<i>cis</i> -Nonachlor (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
ULM-7445-1.2	<i>cis</i> -Nonachlor (unlabeled)	C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
CLM-4735-1.2	<i>trans</i> -Nonachlor (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
ULM-7229-1.2	<i>trans</i> -Nonachlor (unlabeled)	C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
CLM-4729-1.2	Oxychlordane (¹³ C ₁₀ , 99%)	*C ₁₀ H ₄ Cl ₈ O	100 µg/mL in nonane	1.2 mL
ULM-6139-1.2	Oxychlordane (unlabeled)	C ₁₀ H ₄ Cl ₈ O	100 µg/mL in nonane	1.2 mL
ULM-6139-SM-1.2			100 µg/mL in methanol	1.2 mL

NOTE: Some standards also available in less than uniformly labeled forms. Please inquire if interested.

Organochlorine (OC) Pesticide and Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
CLM-4725-1.2	Aldrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7441-1.2	Aldrin (unlabeled)	C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-2482-1.2	α-HCH (α-BHC) (¹³ C ₆ , 99%)	*C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7232-1.2	α-HCH (α-BHC) (unlabeled)	C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-3623-1.2	β-HCH (β-BHC) (¹³ C ₆ , 99%)	*C ₆ H ₆ Cl ₆	50 µg/mL in nonane	2 × 1.2 mL
ULM-6132-1.2	β-HCH (β-BHC) (unlabeled)	C ₆ H ₆ Cl ₆	50 µg/mL in nonane	2 × 1.2 mL
CDLM-624-1.2	γ-HCH (γ-BHC) (lindane) (¹³ C ₆ , 99%; D ₆ , 99%)	*C ₆ D ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-1282-1.2	γ-HCH (γ-BHC) (lindane) (¹³ C ₆ , 99%)	*C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-6133-1.2	γ-HCH (γ-BHC) (lindane) (unlabeled)	C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-3648-1.2	δ-HCH (δ-BHC) (¹³ C ₆ , 99%)	*C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7233-1.2	δ-HCH (δ-BHC) (unlabeled)	C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-8087-1.2	cis-Chlordane (α) (¹³ C ₁₀ , 99%)	*C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
NEW ULM-2419-1.2	cis-Chlordane (α) (unlabeled)	C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
ULM-2419-25			neat	25 mg
CLM-4792-1.2	trans-Chlordane (γ) (¹³ C ₁₀ , 99%)	*C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
ULM-2420-1.2	trans-Chlordane (γ) (unlabeled)	C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
NEW ULM-2420-25			neat	25 mg
CLM-4814-1.2	Chlordecone (kepone) (¹³ C ₁₀ , 99%)	*C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
ULM-2301-1.2	Chlordecone (kepone) (unlabeled)	C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
ULM-2301-0.1			neat	0.1 g
CLM-4758-1.2	Chlordene (¹³ C ₁₀ , 99%)	*C ₁₀ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7443-1.2	Chlordene (unlabeled)	C ₁₀ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-6999-1.2	2,4'-DDD (ring- ¹³ C ₁₂ , 99%) [(o,p'-Dichlorodiphenyl) dichloroethane]	*C ₁₂ C ₂ H ₁₀ Cl ₄	50 µg/mL in nonane	1.2 mL
ULM-7450-1.2	2,4'-DDD (unlabeled) [(o,p'-dichlorodiphenyl) dichloroethane]	C ₁₄ H ₁₀ Cl ₄	50 µg/mL in nonane	1.2 mL
CLM-7100-1.2	4,4'-DDD (ring- ¹³ C ₁₂ , 99%) [(p,p'-dichlorodiphenyl) dichloroethane]	*C ₁₂ C ₂ H ₁₀ Cl ₄	100 µg/mL in nonane	1.2 mL
DLM-3533-1.2	4,4'-DDD (ring-D ₈ , 98%) [(p,p'-dichlorodiphenyl) dichloroethane]	C ₁₄ D ₈ H ₂ Cl ₄	100 µg/mL in nonane	1.2 mL
ULM-7216-1.2	4,4'-DDD (unlabeled) [(p,p'-dichlorodiphenyl) dichloroethane]	C ₁₄ H ₁₀ Cl ₄	100 µg/mL in nonane	1.2 mL
CLM-4693-1.2	2,4'-DDE (ring- ¹³ C ₁₂ , 99%) [(o,p'-dichlorodiphenyl) dichloroethylene]	(Cl*C ₆ H ₄) ₂ C=CCl ₂	100 µg/mL in nonane	1.2 mL
ULM-6251-1.2	2,4'-DDE (unlabeled) [(o,p'-dichlorodiphenyl) dichloroethylene]	C ₁₄ H ₈ Cl ₄	100 µg/mL in nonane	1.2 mL
CLM-1627-1.2	4,4'-DDE (ring- ¹³ C ₁₂ , 99%) [(p,p'-dichlorodiphenyl) dichloroethylene]	(Cl*C ₆ H ₄) ₂ C=CCl ₂	100 µg/mL in nonane	1.2 mL
CLM-1627-5			neat	5 mg
ULM-6137-1.2	4,4'-DDE (unlabeled) [(p,p'-dichlorodiphenyl) dichloroethylene]	(ClC ₆ H ₄) ₂ C=CCl ₂	100 µg/mL in nonane	1.2 mL
CLM-4692-1.2	2,4'-DDT (ring- ¹³ C ₁₂ , 99%) [(o,p'-dichlorodiphenyl) trichloroethane]	(Cl*C ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
ULM-6134-1.2	2,4'-DDT (unlabeled) [(o,p'-dichlorodiphenyl) trichloroethane]	ClC ₆ H ₄ CH(CCl ₃)C ₆ H ₄ Cl	100 µg/mL in nonane	1.2 mL
CLM-1281-1.2	4,4'-DDT (ring- ¹³ C ₁₂ , 99%) [(p,p'-dichlorodiphenyl) trichloroethane]	(Cl*C ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
CLM-1281-5			neat	5 mg
ULM-6135-1.2	4,4'-DDT (unlabeled) [(p,p'-dichlorodiphenyl) trichloroethane]	(ClC ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
CLM-816-1.2	2,6-Dichloro-4-nitroaniline (ring- ¹³ C ₆ , 99%)	Cl ₂ *C ₆ H ₂ (NO ₂)NH ₂	100 µg/mL in nonane	1.2 mL
CLM-4726-1.2	Dieldrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
ULM-7230-1.2	Dieldrin (unlabeled)	C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
CLM-6025-1.2	Endosulfan I (¹³ C ₉ , 99%)	*C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
DLM-2862-1.2	Endosulfan I (D ₄ , 97%)	C ₉ D ₄ H ₂ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
ULM-7447-1.2	Endosulfan I (unlabeled)	C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
CLM-6026-1.2	Endosulfan II (¹³ C ₉ , 99%)	*C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
ULM-7448-1.2	Endosulfan II (unlabeled)	C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
CLM-7531-1.2	Endosulfan sulfate (¹³ C ₉ , 99%)	*C ₉ H ₆ Cl ₆ O ₄ S	100 µg/mL in nonane	1.2 mL
ULM-7990-1.2	Endosulfan sulfate (unlabeled)	C ₉ H ₆ Cl ₆ O ₄ S	100 µg/mL in nonane	1.2 mL

Organochlorine (OC) Pesticide and Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
CLM-4782-1.2	Endrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
ULM-7444-1.2	Endrin (unlabeled)	C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW CLM-4815-1.2	Endrin aldehyde (¹³ C ₁₂ , 99%)	*C ₁₂ H ₁₀ Cl ₆ O	100 µg/mL in nonane	1.2 mL
CLM-4815-50			neat	50 µg
NEW ULM-8958-1.2	Endrin aldehyde (unlabeled)	C ₁₂ H ₁₀ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW ULM-8958-50			neat	50 µg
NEW CLM-4816-1.2	Endrin ketone (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
CLM-4816-50			neat	50 µg
NEW ULM-8956-1.2	Endrin ketone (unlabeled)	C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW ULM-8956-50			neat	50 µg
CLM-4759-1.2	Heptachlor (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₇	100 µg/mL in nonane	1.2 mL
ULM-2424-1.2	Heptachlor (unlabeled)	C ₁₀ H ₅ Cl ₇	100 µg/mL in nonane	1.2 mL
ULM-2424-0.1			neat	0.1 g
CLM-4734-1.2	<i>cis</i> -Heptachlor epoxide (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₇ O	100 µg/mL in nonane	1.2 mL
ULM-2425-1.2	<i>cis</i> -Heptachlor epoxide (unlabeled)	C ₁₀ H ₅ Cl ₇ O	100 µg/mL in nonane	1.2 mL
ULM-2425-0.1			neat	0.1 g
ULM-7869-1.2	<i>trans</i> -Heptachlor epoxide (unlabeled)	C ₁₀ H ₅ Cl ₇ O	100 µg/mL in nonane	1.2 mL
CLM-351-1.2	Hexachlorobenzene (¹³ C ₆ , 99%)	*C ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-6130-1.2	Hexachlorobenzene (unlabeled)	C ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-4727-1.2	Isodrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7442-1.2	Isodrin (unlabeled)	C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-4814-1.2	Kepone (chlordecone) (¹³ C ₁₀ , 99%)	*C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
ULM-2301-1.2	Kepone (chlordecone) (unlabeled)	C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
ULM-2301-0.1			neat	0.1 g
CLM-4683-1.2	Methoxychlor (ring- ¹³ C ₁₂ , 99%)	(CH ₃ O*C ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
ULM-7440-1.2	Methoxychlor (unlabeled)	(CH ₃ OC ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
CLM-4813-1.2	Mirex (¹³ C ₁₀ , 99%)	*C ₁₀ Cl ₁₂	100 µg/mL in nonane	1.2 mL
CLM-2078-1	Mirex (¹³ C ₈ , 99%)	*C ₈ C ₂ Cl ₁₂	100 µg/mL in toluene	1 mL
ULM-2427-1.2	Mirex (unlabeled)	C ₁₀ Cl ₁₂	100 µg/mL in nonane	1.2 mL
ULM-2427-0.1			neat	0.1 g
CLM-4811-1.2	<i>cis</i> -Nonachlor (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
ULM-7445-1.2	<i>cis</i> -Nonachlor (unlabeled)	C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
CLM-4735-1.2	<i>trans</i> -Nonachlor (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
ULM-7229-1.2	<i>trans</i> -Nonachlor (unlabeled)	C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
CLM-4729-1.2	Oxychlorthane (¹³ C ₁₀ , 99%)	*C ₁₀ H ₄ Cl ₈ O	100 µg/mL in nonane	1.2 mL
ULM-6139-1.2	Oxychlorthane (unlabeled)	C ₁₀ H ₄ Cl ₈ O	100 µg/mL in nonane	1.2 mL
ULM-6139-SM-1.2			100 µg/mL in methanol	1.2 mL

Organophosphate (OP) Pesticide and Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
DLM-6000-1.2	Acephate (D ₆ , 98%)	C ₄ D ₆ H ₄ NO ₃ PS	100 µg/mL in acetonitrile-D ₃	1.2 mL
ULM-7263-1.2	Acephate (unlabeled)	C ₄ H ₁₀ NO ₃ PS	100 µg/mL in acetonitrile	1.2 mL
NEW CDNLM-6786-1.2	Aminomethylphosphonic acid (AMPA)	*CH ₄ D ₂ *NO ₃ P	100 µg/mL in H ₂ O	1.2 mL
NEW CDNLM-6786-10	(¹³ C, 99%; ¹⁵ N, 98%, methylene-D ₂ , 98%)		100 µg/mL in H ₂ O	10 mL
NEW ULM-9399-1.2	Azinphos-methyl (unlabeled)	C ₁₀ PN ₃ H ₁₂ S ₂ O ₃	100 µg/mL in nonane	1.2 mL
DLM-7152	Bensulide (isopropoxy-D ₁₄ , 98%)	C ₁₄ D ₁₄ H ₁₀ NO ₄ PS ₃		Inquire
DLM-4360-1.2	Chlorpyrifos (diethyl-D ₁₀ , 99%)	C ₉ D ₁₀ HCl ₃ NO ₃ PS	100 µg/mL in nonane	1.2 mL
ULM-7489-1.2	Chlorpyrifos (unlabeled)	C ₉ H ₁₁ Cl ₃ NO ₃ PS	100 µg/mL in nonane	1.2 mL
NEW DLM-7153-1.2	Chlorpyrifos-methyl (dimethyl-D ₆ , 98%)	C ₇ HCl ₃ D ₆ NO ₃ PS	100 µg/mL in nonane	1.2 mL
NEW ULM-9538-1.2	Chlorpyrifos-methyl (unlabeled)	C ₇ H ₂ Cl ₃ NO ₃ PS	100 µg/mL in nonane	1.2 mL
DLM-1148-1.2	Diazinon (diethyl-D ₁₀ , 98%)	C ₁₂ H ₁₁ D ₁₀ N ₂ O ₃ PS	100 µg/mL in nonane	1.2 mL
NEW DLM-1148-5			neat	5 mg
NEW DLM-1148-A-1.2			100 µg/mL in acetonitrile	1.2 mL
ULM-6575-A-1.2	Diazinon (unlabeled)	C ₁₂ H ₂₁ N ₂ O ₃ PS	100 µg/mL in acetonitrile	1.2 mL
ULM-6575-S-10X-1.2			1000 µg/mL in nonane	1.2 mL
DLM-2829-0.01	Dichlorvos (dimethyl-D ₆ , 98%)	C ₄ D ₆ HCl ₂ O ₄ P	neat	10 mg
ULM-7217-1.2	Dichlorvos (unlabeled)	(H ₃ CO) ₂ POOCH=CCl ₂	100 µg/mL in nonane	1.2 mL
NEW DLM-4851-M-1.2	O,O-Diethyl phosphate, potassium salt (DEP) (diethyl-D ₁₀ , 98%)	C ₄ D ₁₀ KO ₄ P	100 µg/mL in methanol	1.2 mL
NEW ULM-9287-M-1.2	O,O-Diethyl phosphate, potassium salt (DEP) (unlabeled)	C ₄ H ₁₀ KO ₄ P	100 µg/mL in methanol	1.2 mL
DLM-4852-1.2	O,O-Diethyl thiophosphate, potassium salt (DETP) (diethyl-D ₁₀ , 98%)	C ₄ D ₁₀ KO ₃ PS	100 µg/mL in methanol	1.2 mL
ERD-119	O,O-Diethyl thiophosphate, potassium salt (DETP) (unlabeled)	C ₄ H ₁₀ KO ₃ PS	1000 µg/mL in methanol	1.2 mL
NEW DLM-9003-1.2	O,O-Diethyl dithiophosphate, potassium salt (DEDTP) (diethyl-D ₁₀ , 98%)	C ₄ D ₁₀ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
NEW ULM-9002-1.2	O,O-Diethyl dithiophosphate, potassium salt (DEDTP) (unlabeled)	C ₄ H ₁₀ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
ULM-9898-1.2	Diisopropyl methylphosphonate (unlabeled)	C ₇ H ₁₇ O ₃ P	1000 µg/mL in methanol	1.2 mL
DLM-7151-1.2	Dimethoate (O,O-dimethyl-D ₆ , 98%)	C ₅ D ₆ H ₆ NO ₃ PS ₂	100 µg/mL in acetonitrile	1.2 mL
ULM-7972-1.2	Dimethoate (unlabeled)	C ₅ H ₁₂ NO ₃ PS ₂	100 µg/mL in acetonitrile	1.2 mL
NEW DLM-8868-1.2	O,O-Dimethyl phosphate, potassium salt (DMP) (dimethyl-D ₆ , 98%)	C ₂ D ₆ KO ₄ P	100 µg/mL in methanol	1.2 mL
NEW ULM-8867-1.2	O,O-Dimethyl phosphate, potassium salt (DMP) (unlabeled)	C ₂ H ₆ KO ₃ PS	100 µg/mL in methanol	1.2 mL
NEW DLM-8904-1.2	O,O-Dimethyl thiophosphate, potassium salt (DMTP) (dimethyl-D ₆ , 98%) CP 97%	C ₂ D ₆ KO ₃ PS	100 µg/mL in methanol	1.2 mL
NEW ULM-8905-1.2	O,O-Dimethyl thiophosphate, potassium salt (DMTP) (unlabeled) CP 97%	C ₂ H ₆ KO ₃ PS	1000 µg/mL in methanol	1.2 mL
NEW DLM-4541-M-1.2	O,O-Dimethyl dithiophosphate, potassium salt (DMDTP) (dimethyl-D ₆ , 98%)	C ₂ D ₆ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
NEW ULM-9004-1.2	O,O-Dimethyl dithiophosphate, potassium salt (DMDTP) (unlabeled)	C ₂ H ₆ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
ULM-9899-1.2	Dipinacolyl methylphosphonate (unlabeled)	C ₇ H ₁₇ O ₃ P	1000 µg/mL in methanol	1.2 mL
DLM-7183	Disulfoton (O,O-diethyl-D ₁₀ , 98%)	C ₈ D ₁₀ H ₉ O ₂ PS ₃		Inquire
ULM-6091-1.2	Ethyl dimethylamidophosphate, sodium salt (unlabeled)	C ₄ H ₁₁ NO ₃ PNa	1000 µg/mL in methanol	1.2 mL
DLM-6098-1.2	Ethyl hydrogen methylphosphonate (ethyl-D ₅ , 98%)	C ₃ H ₄ D ₅ O ₃ P	100 µg/mL in methanol	1.2 mL
ULM-6099-1.2	Ethyl methylphosphonic acid (unlabeled)	C ₃ H ₅ O ₃ P	1000 µg/mL in methanol	1.2 mL
DLM-2878-0.01	Fenitrothion (O,O-dimethyl-D ₆ , 98%)	C ₉ D ₆ H ₆ NO ₅ PS	neat	10 mg
CLM-4545-1.2	Fonofos (ring- ¹³ C ₆ , 99%)	*C ₆ C ₄ H ₁₅ OPS ₂	100 µg/mL in nonane	1.2 mL
ULM-6694-1.2	Fonofos (unlabeled)	CH ₂ CH ₃ P(S)(O)CH ₂ CH ₃ (SC ₆ H ₅)	100 µg/mL in nonane	1.2 mL

Organophosphate (OP) Pesticide and Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
CNLM-4666-1.2	Glyphosate (2- ¹³ C, 99%; ¹⁵ N, 98%+) CP 96%	HOO*CCH ₂ *NHCH ₂ PO(OH) ₂	100 µg/mL in water	1.2 mL
CNLM-4666-10			100 µg/mL in water	10 mL
CNLM-4666-10X-1.2			1000 µg/mL in water	1.2 mL
ULM-6876-1.2	Glyphosate (unlabeled)	HOOCH ₂ NHCH ₂ PO(OH) ₂	100 µg/mL in water	1.2 mL
ULM-6093-1.2	Isopropyl methylphosphonic acid (unlabeled)	C ₄ H ₁₁ O ₃ P	1000 µg/mL in methanol	1.2 mL
DLM-4476-1.2	Malathion (D ₁₀ , 99%)	C ₁₀ D ₁₀ H ₉ O ₆ PS ₂	100 µg/mL in nonane	1.2 mL
ULM-8122-1.2	Malathion (unlabeled)	C ₁₀ H ₁₅ O ₆ PS ₂	100 µg/mL in nonane	1.2 mL
NEW CLM-9050-1.2	Malathion diacid (¹³ C ₄ , 99%) CP 97%	*C ₆ H ₁₁ O ₆ PS ₂	100 µg/mL in methanol	1.2 mL
NEW ULM-9073-1.2	Malathion diacid (unlabeled)	C ₄ C ₂ H ₁₁ O ₆ PS ₂	100 µg/mL in methanol	1.2 mL
NEW DLM-7149-1.2	Methamidophos (dimethyl-D ₆ , 98%)	C ₂ D ₆ H ₆ NO ₂ PS	100 µg/mL in dioxane	1.2 mL
NEW ULM-8872-1.2	Methamidophos (unlabeled)	C ₂ H ₈ NO ₂ PS	100 µg/mL in dioxane	1.2 mL
CDLM-6100-1.2	Methylphosphonic acid (¹³ C, 99%; methyl-D ₃ , 98%)	*CD ₃ H ₂ O ₃ P	100 µg/mL in methanol	1.2 mL
DLM-6196-1.2	Methylphosphonic acid (methyl-D ₃ , 98%)	CD ₃ H ₂ O ₃ P	100 µg/mL in methanol	1.2 mL
ERM-038	Methylphosphonic acid (unlabeled)	CH ₃ P(O)(OH) ₂	1000 µg/mL in methanol	1.2 mL
CLM-6620-1.2	Methylphosphonic acid, mono-(1,2,2-trimethylpropyl) ester (trimethylpropyl- ¹³ C ₆ , 99%)	*C ₆ CH ₁₇ O ₃ P	100 µg/mL in methanol	1.2 mL
DLM-7150-1.2	Oxydemeton methyl (O,O-dimethyl-D ₆ , 98%)	C ₆ D ₆ H ₉ O ₄ PS ₂	100 µg/mL in acetonitrile	1.2 mL
ULM-8579-1.2	Oxydemeton methyl (unlabeled)	C ₆ H ₁₅ O ₄ PS ₂	100 µg/mL in acetonitrile	1.2 mL
DLM-2970-1.2	Parathion (diethyl-D ₁₀ , 98%)	NO ₂ (C ₆ H ₄)OP(=S)(OC ₂ D ₅) ₂	100 µg/mL in nonane	1.2 mL
ULM-8144-1.2	Parathion (unlabeled)	NO ₂ (C ₆ H ₄)OP(=S)(OC ₂ H ₅) ₂	100 µg/mL in nonane	1.2 mL
CLM-4544-1.2	Phorate (diethoxy- ¹³ C ₄ , 99%)	(*C ₂ H ₅ O) ₂ P(S)SCH ₂ SC ₂ H ₅	100 µg/mL in acetonitrile	1.2 mL
ULM-7567-1.2	Phorate (unlabeled)	(C ₂ H ₅ O) ₂ P(S)SCH ₂ SC ₂ H ₅	100 µg/mL in acetonitrile	1.2 mL
DLM-4667-1.2	Phosmet (dimethyl-D ₆ , 98%)	C ₁₁ D ₆ H ₆ NO ₄ PS ₂	100 µg/mL in acetonitrile	1.2 mL
ULM-8454-1.2	Phosmet (unlabeled)	C ₁₁ H ₁₂ NO ₄ PS ₂	100 µg/mL in acetonitrile	1.2 mL
CLM-4543	Terbufos (diethoxy- ¹³ C ₄ , 99%)	C(CH ₃) ₃ SCH ₂ SP(O)(O*CH ₂ *CH ₃) ₂		Inquire
NEW CLM-9049-1.2	3,5,6-Trichloro-2-pyridinol (TCPY) (4,5,6- ¹³ C ₃ , 99%) CP 97%	*C ₃ C ₂ H ₂ Cl ₃ NO	100 µg/mL in acetonitrile	1.2 mL
NEW ULM-9204-1.2	3,5,6-Trichloro-2-pyridinol (TCPY) (unlabeled)	C ₅ H ₂ Cl ₃ NO	100 µg/mL in acetonitrile	1.2 mL

Neonicotinoid Insecticide and Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
NEW CLM-9653-1.2	Acetamidiprid (pyridylmethyl- ¹³ C ₆ , 99%)	*C ₆ C ₄ H ₁₁ ClN ₄	100 µg/mL in methanol	1.2 mL
NEW ULM-9734-1.2	Acetamidiprid (unlabeled)	C ₁₀ H ₁₁ ClN ₄	100 µg/mL in methanol	1.2 mL
NEW CLM-9598-1.2	6-Chloronicotinic acid (¹³ C ₆ , 99%)	*C ₆ H ₄ ClNO ₂	100 µg/mL in MTBE	1.2 mL
NEW ULM-9604-1.2	6-Chloronicotinic acid (unlabeled)	C ₆ H ₄ ClNO ₂	100 µg/mL in MTBE	1.2 mL
NEW CNLM-9940-1.2	Clothianidin (thiazole- ¹³ C ₃ , 99%; ¹⁵ N, 98%)	*C ₃ C ₃ H ₈ Cl*NN ₄ O ₂ S		Inquire
NEW ULM-9941-1.2	Clothianidin (unlabeled)	C ₆ H ₈ ClN ₅ O ₂ S		Inquire
NEW CLM-9594-1.2	Dinotefuran (furylmethyl- ¹³ C ₅ , 99%)	*C ₅ C ₂ H ₁₄ N ₄ O ₃	100 µg/mL in methanol	1.2 mL
NEW ULM-9732-1.2	Dinotefuran (unlabeled)	C ₇ H ₁₄ N ₄ O ₃	100 µg/mL in methanol	1.2 mL
NEW DLM-8512-1.2	Imidacloprid (4,4,5,5-D ₄ , 98%)	C ₉ H ₆ D ₄ ClN ₅ O ₂	100 µg/mL in methanol	1.2 mL
NEW ULM-8513-1.2	Imidacloprid (unlabeled)	C ₉ H ₁₀ ClN ₅ O ₂	100 µg/mL in methanol	1.2 mL
NEW CNLM-9869-1.2	Sulfoxaflor (cyano- ¹³ C, 99%; cyano- ¹⁵ N, imine- ¹⁵ N, 98%)	*CC ₉ H ₁₀ F ₃ *N ₂ NOS	100 µg/mL in methanol	1.2 mL
NEW ULM-9870-1.2	Sulfoxaflor (unlabeled)	C ₁₀ H ₁₀ F ₃ N ₂ NOS	100 µg/mL in methanol	1.2 mL
NEW CLM-9690-1.2	3-Tetrahydrofuroic acid (¹³ C ₅ , 99%)	*C ₅ H ₈ O ₃	100 µg/mL in MTBE	1.2 mL
NEW ULM-9691-1.2	3-Tetrahydrofuroic acid (unlabeled)	C ₅ H ₈ O ₃	100 µg/mL in MTBE	1.2 mL
NEW CLM-9652-1.2	Thiacloprid (pyridylmethyl- ¹³ C ₆ , 99%)	*C ₆ C ₄ H ₉ ClN ₄ S	100 µg/mL in methanol	1.2 mL
NEW ULM-9733-1.2	Thiacloprid (unlabeled)	C ₁₀ H ₉ ClN ₄ S	100 µg/mL in methanol	1.2 mL
NEW CNLM-9860-1.2	Thiamethoxam (thiazole- ¹³ C ₃ , 99%; ¹⁵ N, 98%)	*C ₃ C ₅ H ₁₀ Cl*NN ₄ O ₃ S		Inquire
NEW ULM-9939-1.2	Thiamethoxam (unlabeled)	C ₈ H ₁₀ ClN ₅ O ₃ S		Inquire

Carbamate Pesticide and Metabolite Standards

	Catalog No.	Compound	Formula	Concentration	Amount
NEW	CDLM-9820-1.2	Aldicarb (¹³ C ₂ , 98%; D ₃ , 98%)	C ₅ *C ₂ H ₁₁ D ₃ N ₂ O ₂ S	100 µg/mL in acetonitrile	1.2 mL
NEW	ULM-9823-1.2	Aldicarb (unlabeled)	C ₇ H ₁₄ N ₂ O ₂ S	100 µg/mL in acetonitrile	1.2 mL
	CLM-7140	Bendiocarb (¹³ C ₃ , 99%)	*C ₃ C ₈ H ₁₃ NO ₄		Inquire
	ULM-8638	Bendiocarb (unlabeled)	C ₁₁ H ₁₃ NO ₄		Inquire
	CLM-4682-1.2	Carbaryl (ring- ¹³ C ₆ , 99%)	*C ₆ C ₆ H ₁₁ NO ₂	100 µg/mL in nonane	1.2 mL
	ULM-8096-1.2	Carbaryl (unlabeled)	C ₁₀ H ₇ CO ₂ NHCH ₃	100 µg/mL in nonane	1.2 mL
	CLM-1911-1.2	Carbofuran (ring- ¹³ C ₆ , 99%)	*C ₆ C ₆ H ₁₅ NO ₃	100 µg/mL in <i>p</i> -dioxane	1.2 mL
	ULM-7419-1.2	Carbofuran (unlabeled)	C ₁₂ H ₁₅ NO ₃	100 µg/mL in <i>p</i> -dioxane	1.2 mL
	ULM-6875-1.2	Carbofuran phenol (unlabeled)	C ₁₀ H ₁₂ O ₂	200 µg/mL in nonane	1.2 mL
	CNLM-7148-1.2	Methomyl (acetohydroxamate- ¹³ C ₂ , 99%; ¹⁵ N, 98%)	*C ₂ C ₃ H ₁₀ N*NO ₂ S	100 µg/mL in methanol	1.2 mL
	ULM-8639-1.2	Methomyl (unlabeled)	C ₅ H ₁₀ NNO ₂ S	100 µg/mL in methanol	1.2 mL
	DLM-7141-1.2	Propoxur (isopropyl-D ₇ , 98%)	C ₁₁ D ₇ H ₈ NO ₃	100 µg/mL in nonane	1.2 mL
NEW	ULM-9765-1.2	Propoxur (unlabeled)	C ₁₁ H ₁₅ NO ₃	100 µg/mL in nonane	1.2 mL

Triazine Herbicide and Metabolite Standards

	Catalog No.	Compound	Formula	Concentration	Amount
	CLM-8316-1.2	Ammeline (desethyl-desisopropylhydroxyatrazine) (ring- ¹³ C ₃ , 99%)	NH ₂ (*C ₃ N ₃ OH)NH ₂	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	ULM-8323-1.2	Ammeline (desethyl-desisopropylhydroxyatrazine) (unlabeled)	NH ₂ (C ₃ N ₃ OH)NH ₂	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	CLM-3737-1.2	Atrazine (ring- ¹³ C ₃ , 99%)	(CH ₃) ₂ CHNH(*C ₃ N ₃ Cl)NHCH ₂ CH ₃	100 µg/mL in nonane	1.2 mL
	DLM-1149-1.2	Atrazine (ethylamine-D ₅ , 98%)	(CH ₃) ₂ CHNH(C ₃ N ₃ Cl)NHCD ₂ CD ₃	100 µg/mL in nonane	1.2 mL
NEW	DLM-1149-5			100 µg/mL in nonane	5 mg
	ULM-7235-1.2	Atrazine (unlabeled)	(CH ₃) ₂ CHNH(C ₃ N ₃ Cl)NHCH ₂ CH ₃	100 µg/mL in nonane	1.2 mL
	CLM-3894-1.2	Atrazine mercapturate (ring- ¹³ C ₃ , 99%)	*C ₃ C ₁₀ H ₂₂ N ₆ O ₃ S	100 µg/mL in acetonitrile	1.2 mL
	ULM-7346-1.2	Atrazine mercapturate (unlabeled)	C ₁₃ H ₂₂ N ₆ O ₃ S	100 µg/mL in acetonitrile	1.2 mL
	CLM-8311-1.2	Atrazinethiol (ring- ¹³ C ₃ , 99%)	(CH ₃ CH ₂ NH)*C ₃ N ₃ (SH)(NHCH(CH ₃) ₂)	100 µg/mL in acetonitrile	1.2 mL
	ULM-8318-1.2	Atrazinethiol (unlabeled)	(CH ₃ CH ₂ NH)C ₃ N ₃ (SH)(NHCH(CH ₃) ₂)	100 µg/mL in acetonitrile	1.2 mL
	CLM-8313-1.2	Desethylatrazine (ring- ¹³ C ₃ , 99%) CP 97%	(CH ₃) ₂ CHNH(*C ₃ N ₃ Cl)NH ₂	100 µg/mL in acetonitrile	1.2 mL
	ULM-8320-1.2	Desethylatrazine (unlabeled)	(CH ₃) ₂ CHNH(C ₃ N ₃ Cl)NH ₂	100 µg/mL in acetonitrile	1.2 mL
	CLM-7528-1.2	Desethyl desisopropyl atrazine (¹³ C ₃ , 99%) CP 95%	*C ₃ H ₄ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
	ULM-8001-1.2	Desethyl desisopropyl atrazine (unlabeled)	C ₃ H ₄ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
	CLM-8315-1.2	Desethylhydroxyatrazine (ring- ¹³ C ₃ , 99%)	(CH ₂ N)*C ₃ N ₃ (OH)(NHCH(CH ₃) ₂)	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	ULM-8322-1.2	Desethylhydroxyatrazine (unlabeled)	(CH ₂ N)C ₃ N ₃ (OH)(NHCH(CH ₃) ₂)	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	CLM-8312-1.2	Desisopropylatrazine (ring- ¹³ C ₃ , 99%)	CH ₃ CH ₂ NH(*C ₃ N ₃ Cl)NH ₂	100 µg/mL in acetonitrile	1.2 mL
	ULM-8319-1.2	Desisopropylatrazine (unlabeled)	CH ₃ CH ₂ NH(C ₃ N ₃ Cl)NH ₂	100 µg/mL in acetonitrile	1.2 mL
	CLM-8314-1.2	Desisopropylhydroxyatrazine (ring- ¹³ C ₃ , 99%)	(CH ₃ CH ₂ NH)*C ₃ N ₃ (OH)(NH ₂)	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	ULM-8321-1.2	Desisopropylhydroxyatrazine (unlabeled)	(CH ₃ CH ₂ NH)C ₃ N ₃ (OH)(NH ₂)	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	CLM-8310-1.2	Hydroxyatrazine (ring- ¹³ C ₃ , 99%)	(CH ₃ CH ₂ NH)*C ₃ N ₃ (OH)(NHCH(CH ₃) ₂)	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	ULM-8317-1.2	Hydroxyatrazine (unlabeled)	(CH ₃ CH ₂ NH)C ₃ N ₃ (OH)(NHCH(CH ₃) ₂)	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	CLM-3738-1.2	Propazine (ring- ¹³ C ₃ , 99%)	*C ₃ C ₆ H ₁₆ ClN ₅	100 µg/mL in methanol	1.2 mL
NEW	ULM-8304	Propazine (unlabeled)	C ₉ H ₁₆ ClN ₅		Inquire
	CLM-3739-1.2	Simazine (ring- ¹³ C ₃ , 99%)	*C ₃ C ₄ H ₁₂ ClN ₅	100 µg/mL in methanol	1.2 mL
NEW	CLM-3739-A-1.2			100 µg/mL in acetonitrile	1.2 mL
	ULM-7893-1.2	Simazine (unlabeled)	C ₇ H ₁₂ ClN ₅	100 µg/mL in methanol	1.2 mL
NEW	ULM-7893-A-1.2			100 µg/mL in acetonitrile	1.2 mL

Pyrethroid Pesticide and Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
CLM-7293-1.2	Cyfluthrin (mix of stereoisomers) (phenoxy- ¹³ C ₆ , 99%)	*C ₆ C ₁₆ H ₁₈ Cl ₂ FNO ₃	100 µg/mL in nonane	1.2 mL
ULM-7454-1.2	Cyfluthrin (mix of stereoisomers) (unlabeled)	C ₂₂ H ₁₈ Cl ₂ FNO ₃	100 µg/mL in nonane	1.2 mL
CLM-7292-1.2	Cypermethrin (mix of stereoisomers) (phenoxy- ¹³ C ₆ , 99%)	*C ₆ C ₁₆ H ₁₉ Cl ₂ NO ₃	100 µg/mL in nonane	1.2 mL
ULM-7453-1.2	Cypermethrin (mix of stereoisomers) (unlabeled)	C ₂₂ H ₁₉ Cl ₂ NO ₃	100 µg/mL in nonane	1.2 mL
NEW CDLM-9205-1.2	<i>cis</i> -DCCA (1,carboxyl- ¹³ C ₂ , 99%; 1-D, 97%)	C ₆ *C ₂ H ₆ DCl ₂ O ₂	100 µg/mL in acetonitrile-D ₃	1.2 mL
NEW ULM-9176-1.2	<i>cis</i> -DCCA (unlabeled)	C ₈ H ₁₀ Cl ₂ O ₂	100 µg/mL in acetonitrile	1.2 mL
NEW CDLM-9206-1.2	<i>trans</i> -DCCA (1,carboxyl- ¹³ C ₂ , 99%; 1-D, 97%) CP 97%	C ₆ *C ₂ H ₅ DCl ₂ O ₂	100 µg/mL in acetonitrile-D ₃	1.2 mL
NEW ULM-9175-1.2	<i>trans</i> -DCCA (unlabeled)	C ₈ H ₁₀ Cl ₂ O ₂	100 µg/mL in acetonitrile	1.2 mL
CLM-7389-1.2	4-Fluoro-3-phenoxybenzoic acid (¹³ C ₆ , 99%)	*C ₆ C ₇ H ₉ FO ₃	100 µg/mL in acetonitrile	1.2 mL
ULM-7391-1.2	4-Fluoro-3-phenoxybenzoic acid (unlabeled)	C ₁₃ H ₉ FO ₃	100 µg/mL in acetonitrile	1.2 mL
CLM-7322-1.2	<i>cis</i> -Permethrin (phenoxy- ¹³ C ₆ , 99%)	*C ₆ H ₅ OC ₆ H ₄ CH ₂ CO ₂ C ₇ H ₉ Cl ₂ O ₃	50 µg/mL in nonane	1.2 mL
ULM-8526-1.2	<i>cis</i> -Permethrin (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CH ₂ CO ₂ C ₇ H ₉ Cl ₂ O ₃	50 µg/mL in nonane	1.2 mL
CLM-7323-1.2	<i>trans</i> -Permethrin (phenoxy- ¹³ C ₆ , 99%)	*C ₆ H ₅ OC ₆ H ₄ CH ₂ CO ₂ C ₇ H ₉ Cl ₂ O ₃	50 µg/mL in nonane	1.2 mL
ULM-8527-1.2	<i>trans</i> -Permethrin (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CH ₂ CO ₂ C ₇ H ₉ Cl ₂ O ₃	50 µg/mL in nonane	1.2 mL
CLM-4542-1.2	3-Phenoxybenzoic acid (phenoxy- ¹³ C ₆ , 99%)	*C ₆ H ₅ OC ₆ H ₄ CO ₂ H	100 µg/mL in nonane	1.2 mL
CLM-4542-SA-1.2	3-Phenoxybenzoic acid (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CO ₂ H	100 µg/mL in acetonitrile	1.2 mL
ULM-6781-1.2	3-Phenoxybenzoic acid (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CO ₂ H	100 µg/mL in nonane	1.2 mL
ULM-6781-SA-1.2	3-Phenoxybenzoic acid (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CO ₂ H	100 µg/mL in acetonitrile	1.2 mL

Toxaphene Standards

Catalog No.	Compound	Formula	Concentration	Amount
NEW ULM-9429-1.2	Hp-Sed (unlabeled)	C ₁₀ H ₁₁ Cl ₇	10 µg/mL in nonane	1.2 mL
NEW ULM-9428-1.2	Hx-Sed (unlabeled)	C ₁₀ H ₁₂ Cl ₆	10 µg/mL in nonane	1.2 mL
CLM-7930-1.2	Parlar 26 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
ULM-7828-1.2	Parlar 26 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
CLM-8705-1.2	Parlar 32 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₁₁ Cl ₇	10 µg/mL in nonane	1.2 mL
ULM-8665-1.2	Parlar 32 (unlabeled)	C ₁₀ H ₁₁ Cl ₇	10 µg/mL in nonane	1.2 mL
NEW ULM-9005-1.2	Parlar 38 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
CLM-8719-1.2	Parlar 39 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
ULM-8767-1.2	Parlar 39 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
NEW ULM-9430-1.2	Parlar 40 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
NEW ULM-9431-1.2	Parlar 41 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
NEW ULM-9432-1.2	Parlar 44 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
CLM-7931-1.2	Parlar 50 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
ULM-7829-1.2	Parlar 50 (unlabeled)	C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
CLM-7932-1.2	Parlar 62 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
ULM-7830-1.2	Parlar 62 (unlabeled)	C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
CLM-8720-1.2	Parlar 69 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
ULM-8768-1.2	Parlar 69 (unlabeled)	C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
CLM-8721-1.2	Parlar 70 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
ULM-8769-1.2	Parlar 70 (unlabeled)	C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL

See page 226 for mixtures containing toxaphene congeners.

Individual Pesticide and Pesticide Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
DLM-6000-1.2	Acephate (D ₆ , 98%)	C ₄ D ₆ H ₄ NO ₃ PS	100 µg/mL in acetonitrile-D ₃	1.2 mL
ULM-7263-1.2	Acephate (unlabeled)	C ₄ H ₁₀ NO ₃ PS	100 µg/mL in acetonitrile	1.2 mL
NEW CLM-9653-1.2	Acetamiprid (pyridylmethyl- ¹³ C ₆ , 99%)	*C ₆ C ₄ H ₁₁ ClN ₄	100 µg/mL in acetonitrile	1.2 mL
NEW ULM-9734-1.2	Acetamiprid (unlabeled)	C ₁₀ H ₁₁ ClN ₄	100 µg/mL in methanol	1.2 mL
NEW CLM-4546-1.2	Acetochlor (ring- ¹³ C ₆ , 99%)	*C ₆ C ₈ H ₂₀ ClNO ₂	100 µg/mL in acetonitrile	1.2 mL
NEW ULM-9824-1.2	Acetochlor (unlabeled)	C ₆ C ₈ H ₂₀ ClNO ₂	100 µg/mL in acetonitrile	1.2 mL
CLM-3727-1.2	Alachlor (ring- ¹³ C ₆ , 99%) CP 96%	*C ₆ C ₈ H ₂₀ ClNO ₂	100 µg/mL in nonane	1.2 mL
CLM-3687-1.2	Alachlor acetylcysteine adduct (ring- ¹³ C ₆ , 99%)	*C ₆ C ₁₃ H ₂₈ N ₂ O ₅ S	100 µg/mL in acetonitrile	1.2 mL
NEW CDLM-9820-1.2	Aldicarb (¹³ C ₂ , 98%; D ₃ , 98%)	C ₅ *C ₂ H ₁₁ D ₃ N ₂ O ₂ S	100 µg/mL in acetonitrile	1.2 mL
NEW ULM-9823-1.2	Aldicarb (unlabeled)	C ₇ H ₁₄ N ₂ O ₂ S	100 µg/mL in acetonitrile	1.2 mL
CLM-4725-1.2	Aldrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7441-1.2	Aldrin (unlabeled)	C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
CDNLM-6786-1.2	Aminomethylphosphonic acid (AMPA)	*CH ₄ D ₂ *NO ₃ P	100 µg/mL in H ₂ O	1.2 mL
NEW CDNLM-6786-10	(¹³ C, 99%; ¹⁵ N, 98%, methylene-D ₂ , 98%)			10 mL
CLM-8316-1.2	Ammeline (desethyldeisopropylhydroxyatrazine) (ring- ¹³ C ₃ , 99%)	NH ₂ (*C ₃ N ₃ OH)NH ₂	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
ULM-8323-1.2	Ammeline (desethyldeisopropylhydroxyatrazine) (unlabeled)	NH ₂ (C ₃ N ₃ OH)NH ₂	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
CLM-3737-1.2	Atrazine (ring- ¹³ C ₃ , 99%)	*C ₃ C ₅ H ₁₄ ClN ₅	100 µg/mL in nonane	1.2 mL
DLM-1149-1.2	Atrazine (ethylamine-D ₅ , 98%)	C ₈ H ₉ D ₅ ClN ₅	100 µg/mL in nonane	1.2 mL
DLM-1149-5			neat	5 mg
ULM-7235-1.2	Atrazine (unlabeled)	C ₈ H ₁₄ ClN ₅	100 µg/mL in nonane	1.2 mL
CLM-3894-1.2	Atrazine mercapturate (ring- ¹³ C ₃ , 99%)	*C ₃ C ₁₀ H ₂₂ N ₆ O ₃ S	100 µg/mL in acetonitrile	1.2 mL
ULM-7346-1.2	Atrazine mercapturate (unlabeled)	C ₁₃ H ₂₂ N ₆ O ₃ S	100 µg/mL in acetonitrile	1.2 mL
CLM-8311-1.2	Atrazinethiol (ring- ¹³ C ₃ , 99%)	*C ₃ C ₅ H ₁₅ N ₅ S	100 µg/mL in acetonitrile	1.2 mL
ULM-8318-1.2	Atrazinethiol (unlabeled)	C ₈ H ₉ N ₅ S	100 µg/mL in acetonitrile	1.2 mL
NEW ULM-9399-1.2	Azinphos-methyl (unlabeled)	C ₁₀ P ₁ N ₃ H ₁₂ S ₂ O ₃	100 µg/mL in nonane	1.2 mL
CLM-7140	Bendiocarb (¹³ C ₃ , 99%)	*C ₃ C ₈ H ₁₃ NO ₄		Inquire
ULM-8638	Bendiocarb (unlabeled)	C ₁₁ H ₁₃ NO ₄		Inquire
DLM-7152	Bensulide (isopropoxy-D ₁₄ , 98%)	C ₁₄ D ₁₄ H ₁₀ NO ₄ PS ₃		Inquire
CLM-2482-1.2	α-HCH (α-BHC) (¹³ C ₆ , 99%)	*C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7232-1.2	α-HCH (α-BHC) (unlabeled)	C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-3623-1.2	β-HCH (β-BHC) (¹³ C ₆ , 99%)	*C ₆ H ₆ Cl ₆	50 µg/mL in nonane	2 × 1.2 mL
ULM-6132-1.2	β-HCH (β-BHC) (unlabeled)	C ₆ H ₆ Cl ₆	100 µg/mL in nonane	2 × 1.2 mL
CDLM-624-1.2	γ-HCH (γ-BHC) (lindane) (¹³ C ₆ , 99%; D ₆ , 99%)	*C ₆ D ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-1282-1.2	γ-HCH (γ-BHC) (lindane) (¹³ C ₆ , 99%)	*C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-6133-1.2	γ-HCH (γ-BHC) (lindane) (unlabeled)	C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-3648-1.2	δ-HCH (δ-BHC) (¹³ C ₆ , 99%)	*C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7233-1.2	δ-HCH (δ-BHC) (unlabeled)	C ₆ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-3741-1.2	Bromoxynil (ring- ¹³ C ₆ , 99%)	*C ₆ CH ₃ Br ₂ NO	50 µg/mL in nonane	2 × 1.2 mL
ULM-6205-1.2	Bromoxynil (unlabeled)	C ₇ H ₃ Br ₂ NO	50 µg/mL in nonane	1.2 mL
CLM-4682-1.2	Carbaryl (ring- ¹³ C ₆ , 99%)	*C ₆ C ₆ H ₁₁ NO ₂	100 µg/mL in nonane	1.2 mL
ULM-8096-1.2	Carbaryl (unlabeled)	C ₁₀ H ₇ CO ₂ NHCH ₃	100 µg/mL in nonane	1.2 mL
CLM-1911-1.2	Carbofuran (ring- ¹³ C ₆ , 99%)	*C ₆ C ₆ H ₁₅ NO ₃	100 µg/mL in 1,4-dioxane	1.2 mL
ULM-7419-1.2	Carbofuran (unlabeled)	C ₁₂ H ₁₅ NO ₃	100 µg/mL in 1,4-dioxane	1.2 mL
ULM-6875-1.2	Carbofuran phenol (unlabeled)	C ₁₀ H ₁₂ O ₂	200 µg/mL in nonane	1.2 mL
CLM-8087-1.2	cis-Chlordane (α) (¹³ C ₁₀ , 99%)	*C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
NEW ULM-2419-1.2	cis-Chlordane (α) (unlabeled)	C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
ULM-2419-25			neat	25 mg
CLM-4792-1.2	trans-Chlordane (γ) (¹³ C ₁₀ , 99%)	*C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
NEW ULM-2420-1.2	trans-Chlordane (γ) (unlabeled)	C ₁₀ H ₆ Cl ₈	100 µg/mL in nonane	1.2 mL
ULM-2420-25			neat	25 mg
CLM-4814-1.2	Chlordecone (kepone) (¹³ C ₁₀ , 99%)	*C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
ULM-2301-1.2	Chlordecone (kepone) (unlabeled)	C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
ULM-2301-0.1			neat	0.1 g
CLM-4758-1.2	Chlordene (¹³ C ₁₀ , 99%)	*C ₁₀ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
ULM-7443-1.2	Chlordene (unlabeled)	C ₁₀ H ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
CLM-6759	4-Chloro-2-hydroxymethyl phenoxyacetic acid (HMCPA) (ring- ¹³ C ₆ , 99%)	ClOH*C ₆ H ₃ OCH ₂ CO ₂ H		Inquire

Individual Pesticide and Pesticide Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
CLM-6758	4-Chloro-2-methylphenoxyacetic acid (MCPA) (ring- ¹³ C ₆ , 99%)	ClCH ₃ *C ₆ H ₃ OCH ₂ CO ₂ H		Inquire
NEW CLM-9598-1.2	6-Chloronicotinic acid (¹³ C ₆ , 99%)	*C ₆ H ₄ ClNO ₂	100 µg/mL in MTBE	1.2 mL
NEW ULM-9604-1.2	6-Chloronicotinic acid (unlabeled)	C ₆ H ₄ ClNO ₂	100 µg/mL in MTBE	1.2 mL
CLM-1913-1.2	4-Chlorophenol (¹³ C ₆ , 99%)	*C ₆ H ₄ ClOH	100 µg/mL in nonane	1.2 mL
ULM-7420-1.2	4-Chlorophenol (unlabeled)	C ₆ H ₄ ClOH	100 µg/mL in nonane	1.2 mL
DLM-4360-1.2	Chlorpyrifos (diethyl-D ₁₀ , 99%)	C ₉ D ₁₀ HCl ₃ NO ₃ PS	100 µg/mL in nonane	1.2 mL
ULM-7489-1.2	Chlorpyrifos (unlabeled)	C ₉ H ₁₁ Cl ₃ NO ₃ PS	100 µg/mL in nonane	1.2 mL
NEW DLM-7153-1.2	Chlorpyrifos-methyl (dimethyl-D ₆ , 98%)	C ₇ HCl ₃ D ₆ NO ₃ PS	100 µg/mL in nonane	1.2 mL
NEW ULM-9538-1.2	Chlorpyrifos-methyl (unlabeled)	C ₇ H ₇ Cl ₃ NO ₃ PS	100 µg/mL in nonane	1.2 mL
NEW DLM-3760-1.2	Chlortoluron (<i>N,N</i> -dimethyl-D ₆ , 98%)	C ₁₀ H ₇ D ₆ ClN ₂ O	100 µg/mL in acetonitrile	1.2 mL
DLM-3760-0.01			neat	10 mg
NEW ULM-9825-1.2	Chlortoluron (unlabeled)	C ₁₀ H ₁₃ ClN ₂ O	100 µg/mL in acetonitrile	1.2 mL
NEW CNLM-9940-1.2	Clothianidin (thiazole- ¹³ C ₃ , 99%; ¹⁵ N, 98%)	*C ₃ C ₃ H ₆ Cl*NN ₂ O ₂ S		Inquire
NEW ULM-9941-1.2	Clothianidin (unlabeled)	C ₆ H ₈ ClN ₅ O ₂ S		Inquire
ERC-034	Cyclohexyl methylphosphonic acid (unlabeled)	CH ₃ PO ₃ HC ₆ H ₁₁	1000 µg/mL in methanol	1.2 mL
CLM-7293-1.2	Cyfluthrin (mix of stereoisomers) (phenoxy- ¹³ C ₆ , 99%)	*C ₆ C ₁₆ H ₁₈ Cl ₂ FNO ₃	100 µg/mL in nonane	1.2 mL
ULM-7454-1.2	Cyfluthrin (mix of stereoisomers) (unlabeled)	C ₂₂ H ₁₈ Cl ₂ FNO ₃	100 µg/mL in nonane	1.2 mL
CLM-7292-1.2	Cypermethrin (mix of stereoisomers) (phenoxy- ¹³ C ₆ , 99%)	*C ₆ C ₁₆ H ₁₉ Cl ₂ NO ₃	100 µg/mL in nonane	1.2 mL
ULM-7453-1.2	Cypermethrin (mix of stereoisomers) (unlabeled)	C ₂₂ H ₁₉ Cl ₂ NO ₃	100 µg/mL in nonane	1.2 mL
NEW CDLM-9205-1.2	<i>cis</i> -DCCA (1,carboxyl- ¹³ C ₂ , 99%; 1-D, 97%)	C ₆ *C ₂ H ₆ DCl ₂ O ₂	100 µg/mL in acetonitrile-D ₃	1.2 mL
NEW ULM-9176-1.2	<i>cis</i> -DCCA (unlabeled)	C ₈ H ₁₀ Cl ₂ O ₂	100 µg/mL in acetonitrile	1.2 mL
NEW CDLM-9206-1.2	<i>trans</i> -DCCA (1,carboxyl- ¹³ C ₂ , 99%; 1-D, 97%)	C ₆ *C ₂ H ₆ DCl ₂ O ₂	100 µg/mL in acetonitrile-D ₃	1.2 mL
NEW ULM-9175-1.2	<i>trans</i> -DCCA (unlabeled)	C ₈ H ₁₀ Cl ₂ O ₂	100 µg/mL in acetonitrile	1.2 mL
CLM-6999-1.2	2,4'-DDD (ring- ¹³ C ₁₂ , 99%) [(<i>o,p'</i> -Dichlorodiphenyl) dichloroethane]	*C ₁₂ C ₂ H ₁₀ Cl ₄	50 µg/mL in nonane	1.2 mL
ULM-7450-1.2	2,4'-DDD (unlabeled) [(<i>o,p'</i> -Dichlorodiphenyl) dichloroethane]	C ₁₄ H ₁₀ Cl ₄	50 µg/mL in nonane	1.2 mL
CLM-7100-1.2	4,4'-DDD (ring- ¹³ C ₁₂ , 99%) [(<i>o,p'</i> -Dichlorodiphenyl) dichloroethane]	*C ₁₂ C ₂ H ₁₀ Cl ₄	100 µg/mL in nonane	1.2 mL
DLM-3533-1.2	4,4'-DDD (ring-D ₈ , 98%) [(<i>p,p'</i> -Dichlorodiphenyl) dichloroethane]	C ₁₄ D ₈ H ₂ Cl ₄	100 µg/mL in nonane	1.2 mL
ULM-7216-1.2	4,4'-DDD (unlabeled) [(<i>p,p'</i> -Dichlorodiphenyl) dichloroethane]	C ₁₄ H ₁₀ Cl ₄	100 µg/mL in nonane	1.2 mL
CLM-4693-1.2	2,4'-DDE (ring- ¹³ C ₁₂ , 99%) [(<i>o,p'</i> -Dichlorodiphenyl) dichloroethylene]	(Cl*C ₆ H ₄) ₂ C=CCl ₂	100 µg/mL in nonane	1.2 mL
ULM-6251-1.2	2,4'-DDE (unlabeled) [(<i>o,p'</i> -Dichlorodiphenyl) dichloroethylene]	C ₁₄ H ₈ Cl ₄	100 µg/mL in nonane	1.2 mL
CLM-1627-1.2	4,4'-DDE (ring- ¹³ C ₁₂ , 99%)	(Cl*C ₆ H ₄) ₂ C=CCl ₂	100 µg/mL in nonane	1.2 mL
CLM-1627-5	[(<i>p,p'</i> -Dichlorodiphenyl) dichloroethylene]		neat	5 mg
ULM-6137-1.2	4,4'-DDE (unlabeled) [(<i>p,p'</i> -Dichlorodiphenyl) dichloroethylene]	(ClC ₆ H ₄) ₂ C=CCl ₂	100 µg/mL in nonane	1.2 mL
CLM-4692-1.2	2,4'-DDT (ring- ¹³ C ₁₂ , 99%) [(<i>o,p'</i> -Dichlorodiphenyl) trichloroethane]	(Cl*C ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
ULM-6134-1.2	2,4'-DDT (unlabeled) [(<i>o,p'</i> -Dichlorodiphenyl) trichloroethane]	ClC ₆ H ₄ CH(CCl ₃)C ₆ H ₄ Cl	100 µg/mL in nonane	1.2 mL
CLM-1281-1.2	4,4'-DDT (ring- ¹³ C ₁₂ , 99%)	(Cl*C ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
CLM-1281-5	[(<i>p,p'</i> -Dichlorodiphenyl) trichloroethane]		neat	5 mg
ULM-6135-1.2	4,4'-DDT (unlabeled) [(<i>p,p'</i> -Dichlorodiphenyl) trichloroethane]	(ClC ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
CLM-8313-1.2	Desethylatrazine (ring- ¹³ C ₃ , 99%) CP 97%	*C ₃ C ₃ H ₁₀ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
ULM-8320-1.2	Desethylatrazine (unlabeled)	C ₆ H ₁₀ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
CLM-7528-1.2	Desethyl desisopropyl atrazine (¹³ C ₃ , 99%) CP 95%	*C ₃ H ₄ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
ULM-8001-1.2	Desethyl desisopropyl atrazine (unlabeled)	C ₃ H ₄ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
CLM-8315-1.2	Desethylhydroxyatrazine (ring- ¹³ C ₃ , 99%)	C ₃ *C ₃ H ₁₁ N ₅ O	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL

(continued on next page)

Individual Pesticide and Pesticide Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
ULM-8322-1.2	Desethylhydroxyatrazine (unlabeled)	C ₆ H ₁₁ N ₅ O	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
CLM-8312-1.2	Desisopropylatrazine (ring- ¹³ C ₃ , 99%)	*C ₃ C ₂ H ₈ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
ULM-8319-1.2	Desisopropylatrazine (unlabeled)	C ₅ H ₈ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
CLM-8314-1.2	Desisopropylhydroxyatrazine (ring- ¹³ C ₃ , 99%)	*C ₃ C ₂ H ₉ N ₅ O	100 µg/mL in acetonitrile	1.2 mL
ULM-8321-1.2	Desisopropylhydroxyatrazine (unlabeled)	C ₅ H ₉ N ₅ O	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
NEW DLM-1148-1.2	Diazinon (diethyl-D ₁₀ , 98%)	C ₁₂ H ₁₁ D ₁₀ N ₂ O ₃ PS	100 µg/mL in nonane	1.2 mL
NEW DLM-1148-A-1.2			100 µg/mL in acetonitrile	1.2 mL
NEW DLM-1148-5			neat	5 mg
NEW ULM-6575-S-10X-1.2	Diazinon (unlabeled)	C ₁₂ H ₂₁ N ₂ O ₃ PS	1000 µg/mL in nonane	1.2 mL
NEW ULM-6575-A-1.2			100 µg/mL in acetonitrile	1.2 mL
CLM-816-1.2	2,6-Dichloro-4-nitroaniline (ring- ¹³ C ₆ , 99%)	Cl ₂ *C ₆ H ₂ (NO ₂)NH ₂	100 µg/mL in nonane	1.2 mL
CLM-1858-1.2	2,4-Dichlorophenoxyacetic acid (2,4-D) (ring- ¹³ C ₆ , 99%)	Cl ₂ *C ₆ H ₃ OCH ₂ CO ₂ H	100 µg/mL in acetonitrile	1.2 mL
DLM-1146-5	2,4-Dichlorophenoxyacetic acid (2,4-D) (ring-D ₃ , 98%)	Cl ₂ C ₆ D ₃ OCH ₂ CO ₂ H	neat	5 mg
ULM-7418-1.2	2,4-Dichlorophenoxyacetic acid (2,4-D) (unlabeled)	Cl ₂ C ₆ H ₃ OCH ₂ CO ₂ H	100 µg/mL in acetonitrile	1.2 mL
CLM-3722-1.2	Dichlorprop (ring- ¹³ C ₆ , 99%)	*C ₆ C ₃ H ₈ Cl ₂ O ₃	100 µg/mL in nonane	1.2 mL
ULM-7313-1.2	Dichlorprop (unlabeled)	(Cl) ₂ C ₆ H ₃ OCH(CH ₃)CO ₂ H	100 µg/mL in nonane	1.2 mL
DLM-2829-0.01	Dichlorvos (dimethyl-D ₆ , 98%)	C ₄ D ₆ HCl ₂ O ₄ P	neat	10 mg
ULM-7217-1.2	Dichlorvos (unlabeled)	(H ₃ CO) ₂ POOCH=CCl ₂	100 µg/mL in nonane	1.2 mL
CLM-4726-1.2	Dieldrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
ULM-7230-1.2	Dieldrin (unlabeled)	C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW DLM-4851-M-1.2	O,O-Diethyl phosphate, potassium salt (DEP) (diethyl-D ₁₀ , 98%)	C ₄ D ₁₀ KO ₄ P	100 µg/mL in methanol	1.2 mL
NEW ULM-9287-M-1.2	O,O-Diethyl phosphate, potassium salt (DEP) (unlabeled)	C ₄ H ₁₀ KO ₄ P	100 µg/mL in methanol	1.2 mL
DLM-4852-1.2	O,O-Diethyl thiophosphate, potassium salt (DETP) (diethyl-D ₁₀ , 98%)	C ₄ D ₁₀ KO ₃ PS	100 µg/mL in methanol	1.2 mL
ERD-119	O,O-Diethyl thiophosphate, potassium salt (DETP) (unlabeled)	C ₄ H ₁₀ KO ₃ PS	1000 µg/mL in methanol	1.2 mL
NEW DLM-9003-1.2	O,O-Diethyl dithiophosphate, potassium salt (DEDTP) (diethyl-D ₁₀ , 98%)	C ₄ D ₁₀ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
NEW ULM-9002-1.2	O,O-Diethyl dithiophosphate, potassium salt (DEDTP) (unlabeled)	C ₄ H ₁₀ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
DLM-4762-1.2	N,N-Diethyl-m-toluamide (DEET) (dimethyl-D ₆ , 98%)	CH ₃ C ₆ H ₄ CON(CH ₂ CD ₃) ₂	100 µg/mL in MeCl-D ₂	1.2 mL
DLM-4762-D-1.2			100 µg/mL in dioxane	1.2 mL
ULM-7975-1.2	N,N-Diethyl-m-toluamide (DEET) (unlabeled)	CH ₃ C ₆ H ₄ CON(CH ₂ CH ₃) ₂	100 µg/mL in MeCl	1.2 mL
ULM-7975-D-1.2			100 µg/mL in dioxane	1.2 mL
NEW ULM-9898-1.2	Diisopropyl methylphosphonate (unlabeled)	C ₇ H ₁₇ O ₃ P	1000 µg/mL in methanol	1.2 mL
DLM-7151-1.2	Dimethoate (O,O-dimethyl-D ₆ , 98%)	C ₅ D ₆ H ₆ NO ₃ PS ₂	100 µg/mL in acetonitrile	1.2 mL
ULM-7972-1.2	Dimethoate (unlabeled)	C ₅ H ₁₂ NO ₃ PS ₂	100 µg/mL in acetonitrile	1.2 mL
NEW DLM-8868-1.2	O,O-Dimethyl phosphate, potassium salt (DMP) (dimethyl-D ₆ , 98%)	C ₂ D ₆ KO ₄ P	100 µg/mL in methanol	1.2 mL
NEW ULM-8867-1.2	O,O-Dimethyl phosphate, potassium salt (DMP) (unlabeled)	C ₂ H ₆ KO ₃ P ₄	100 µg/mL in methanol	1.2 mL
NEW DLM-8904-1.2	O,O-Dimethyl thiophosphate, potassium salt (DMTP) (dimethyl-D ₆ , 98%) CP 97%	C ₂ D ₆ KO ₃ PS	100 µg/mL in methanol	1.2 mL
NEW ULM-8905-1.2	O,O-Dimethyl thiophosphate, potassium salt (DMTP) (unlabeled) CP 97%	C ₂ H ₆ KO ₃ PS	1000 µg/mL in methanol	1.2 mL
NEW DLM-4541-M-1.2	O,O-Dimethyl dithiophosphate, potassium salt (DMDTP) (dimethyl-D ₆ , 98%)	C ₂ D ₆ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
NEW ULM-9004-1.2	O,O-Dimethyl dithiophosphate, potassium salt (DMDTP) (unlabeled)	C ₂ H ₆ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
CLM-3373	Dinocap (ring- ¹³ C ₆ , 99%)	*C ₆ C ₁₂ H ₂₄ N ₂ O ₆		Inquire
NEW ULM-9171-1.2	Dinocap (unlabeled)	C ₁₈ H ₂₄ N ₂ O ₆		Inquire
NEW CLM-9594-1.2	Dinotefuran (furylmethyl- ¹³ C ₅ , 99%)	*C ₅ C ₂ H ₁₄ N ₄ O ₃	100 µg/mL in methanol	1.2 mL
NEW ULM-9732-1.2	Dinotefuran (unlabeled)	C ₇ H ₁₄ N ₄ O ₃	100 µg/mL in methanol	1.2 mL

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	Catalog No.	Compound	Formula	Concentration	Amount
NEW	ULM-9899-1.2	Dipinacolyl methylphosphonate (unlabeled)	C ₁₃ H ₂₉ O ₃ P	1000 µg/mL in methanol	1.2 mL
	DLM-7183	Disulfoton (<i>O,O</i> -diethyl-D ₁₀ , 98%)	C ₈ D ₁₀ H ₉ O ₂ PS ₃		Inquire
	CLM-6025-1.2	Endosulfan I (¹³ C ₉ , 99%)	*C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
	DLM-2862-1.2	Endosulfan I (D ₄ , 97%)	C ₉ D ₄ H ₂ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
	ULM-7447-1.2	Endosulfan I (unlabeled)	C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
	CLM-6026-1.2	Endosulfan II (¹³ C ₉ , 99%)	*C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
	ULM-7448-1.2	Endosulfan II (unlabeled)	C ₉ H ₆ Cl ₆ O ₃ S	100 µg/mL in nonane	1.2 mL
	CLM-7531-1.2	Endosulfan sulfate (¹³ C ₉ , 99%)	*C ₉ H ₆ Cl ₆ O ₄ S	100 µg/mL in nonane	1.2 mL
	ULM-7990-1.2	Endosulfan sulfate (unlabeled)	C ₉ H ₆ Cl ₆ O ₄ S	100 µg/mL in nonane	1.2 mL
	CLM-4782-1.2	Endrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
	ULM-7444-1.2	Endrin (unlabeled)	C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW	CLM-4815-1.2	Endrin aldehyde (¹³ C ₁₂ , 99%)	*C ₁₂ H ₁₀ Cl ₆ O	100 µg/mL in nonane	1.2 mL
	CLM-4815-50			neat	50 µg
NEW	ULM-8958-1.2	Endrin aldehyde (unlabeled)	C ₁₂ H ₁₀ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW	ULM-8958-50			neat	50 µg
NEW	CLM-4816-1.2	Endrin ketone (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
	CLM-4816-50			neat	50 µg
NEW	ULM-8956-1.2	Endrin ketone (unlabeled)	C ₁₂ H ₈ Cl ₆ O	100 µg/mL in nonane	1.2 mL
NEW	ULM-8956-50			neat	50 µg
NEW	ULM-6091-1.2	Ethyl dimethylamidophosphate, sodium salt (unlabeled)	C ₄ H ₁₁ NO ₃ PNa	1000 µg/mL in methanol	1.2 mL
NEW	DLM-6098-1.2	Ethyl methylphosphonate (ethyl-D ₅ , 98%)	C ₃ H ₄ D ₅ O ₃ P	100 µg/mL in methanol	1.2 mL
NEW	ULM-6099-1.2	Ethyl methylphosphonic acid (unlabeled)	C ₃ H ₉ O ₃ P	1000 µg/mL in methanol	1.2 mL
	DLM-2878-0.01	Fenitrothion (<i>O,O</i> -dimethyl-D ₆ , 98%)	C ₉ D ₆ H ₆ NO ₅ PS	neat	10 mg
NEW	CNLM-9636-1.2	Fipronil (3-cyano, pyrazole-3,4,5- ¹³ C ₄ , 99%; 3-cyano, 5- ¹⁵ N ₂ , 98%)	*C ₄ C ₈ H ₄ Cl ₂ F ₆ N ₂ *N ₂ OS	100 µg/mL in methanol	1.2 mL
NEW	ULM-9635-1.2	Fipronil (unlabeled)	C ₁₂ H ₄ Cl ₂ F ₆ N ₄ OS	100 µg/mL in methanol	1.2 mL
NEW	CNLM-9647-1.2	Fipronil desulfinyl (3-cyano, pyrazole-3,4,5- ¹³ C ₄ , 99%; 3-cyano, 5- ¹⁵ N ₂ , 98%)	*C ₄ C ₈ H ₄ Cl ₂ F ₆ N ₂ *N ₂	100 µg/mL in methanol	1.2 mL
NEW	ULM-9646-1.2	Fipronil desulfinyl (unlabeled)	C ₁₂ H ₄ Cl ₂ F ₆ N ₄	100 µg/mL in methanol	1.2 mL
NEW	CNLM-9650-1.2	Fipronil detrifluoromethyl sulfinyl (3-cyano, pyrazole-3,4,5- ¹³ C ₄ , 99%) 3-cyano- 5- ¹⁵ N ₂ , 98%)	*C ₄ C ₇ H ₅ Cl ₂ F ₃ *N ₂ N ₂	100 µg/mL in methanol	1.2 mL
NEW	ULM-9649-1.2	Fipronil detrifluoromethyl sulfinyl (unlabeled)	C ₁₁ H ₅ Cl ₂ F ₃ N ₂ N ₂	100 µg/mL in methanol	1.2 mL
NEW	CNLM-9645-1.2	Fipronil sulfide (3-cyano, pyrazole-3,4,5- ¹³ C ₄ , 99%; 3-cyano, 5- ¹⁵ N ₂ , 98%)	*C ₄ C ₈ H ₄ Cl ₂ F ₆ *N ₂ N ₂ S	100 µg/mL in methanol	1.2 mL
NEW	ULM-9644-1.2	Fipronil sulfide (unlabeled)	C ₁₂ H ₄ Cl ₂ F ₆ N ₄ S	100 µg/mL in methanol	1.2 mL
NEW	CNLM-9643-1.2	Fipronil sulfone (3-cyano, pyrazole-3,4,5- ¹³ C ₄ , 99%; 3-cyano, 5- ¹⁵ N ₂ , 98%)	*C ₄ C ₈ H ₄ Cl ₂ F ₆ *N ₂ N ₂ O ₂ S	100 µg/mL in methanol	1.2 mL
NEW	ULM-9642-1.2	Fipronil sulfone (unlabeled)	C ₁₂ H ₄ Cl ₂ F ₆ N ₄ O ₂ S	100 µg/mL in methanol	1.2 mL
	CLM-7389-1.2	4-Fluoro-3-phenoxybenzoic acid (¹³ C ₆ , 99%)	*C ₆ C ₇ H ₉ FO ₃	100 µg/mL in acetonitrile	1.2 mL
	ULM-7391-1.2	4-Fluoro-3-phenoxybenzoic acid (unlabeled)	C ₁₃ H ₉ FO ₃	100 µg/mL in acetonitrile	1.2 mL
	CLM-4545-1.2	Fonofos (ring- ¹³ C ₆ , 99%)	*C ₆ C ₄ H ₁₅ OPS ₂	100 µg/mL in nonane	1.2 mL
	ULM-6694-1.2	Fonofos (unlabeled)	CH ₂ CH ₃ P(S)(OCH ₂ CH ₃)(SC ₆ H ₅)	100 µg/mL in nonane	1.2 mL
NEW	DLM-9680	Forchlorfenuron (phenyl-D ₅ , 99%)	C ₁₂ D ₅ H ₅ ClN ₃ O		Inquire
	CNLM-4666-1.2	Glyphosate (2- ¹³ C, 99%; ¹⁵ N, 98%+)	HO ₂ *CCH ₂ *NHCH ₂ PO(OH) ₂	100 µg/mL in water	1.2 mL
NEW	CNLM-4666-10X-1.2			1000 µg/mL in water	1.2 mL
	CNLM-4666-10			100 µg/mL in water	10 mL
	ULM-6876-1.2	Glyphosate (unlabeled)	HO ₂ CCH ₂ NHCH ₂ PO(OH) ₂	100 µg/mL in water	1.2 mL
	CLM-4759-1.2	Heptachlor (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₇	100 µg/mL in nonane	1.2 mL
	ULM-2424-1.2	Heptachlor (unlabeled)	C ₁₀ H ₅ Cl ₇	100 µg/mL in nonane	1.2 mL
	ULM-2424-0.1			neat	0.1 g
	CLM-4734-1.2	<i>cis</i> -Heptachlor epoxide (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₇ O	100 µg/mL in nonane	1.2 mL
	ULM-2425-1.2	<i>cis</i> -Heptachlor epoxide (unlabeled)	C ₁₀ H ₅ Cl ₇ O	100 µg/mL in nonane	1.2 mL
	ULM-2425-0.1			neat	0.1 g
	ULM-7869-1.2	<i>trans</i> -Heptachlor epoxide (unlabeled)	C ₁₀ H ₅ Cl ₇ O	100 µg/mL in nonane	1.2 mL
	CLM-351-1.2	Hexachlorobenzene (¹³ C ₆ , 99%)	*C ₆ Cl ₆	100 µg/mL in nonane	1.2 mL
	ULM-6130-1.2	Hexachlorobenzene (unlabeled)	C ₆ Cl ₆	100 µg/mL in nonane	1.2 mL

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Individual Pesticide and Pesticide Metabolite Standards

	Catalog No.	Compound	Formula	Concentration	Amount
NEW	ULM-9429-1.2	Hp-Sed (unlabeled)	C ₁₀ H ₁₁ Cl ₇	10 µg/mL in nonane	1.2 mL
NEW	ULM-9428-1.2	Hx-Sed (unlabeled)	C ₁₀ H ₁₂ Cl ₆	10 µg/mL in nonane	1.2 mL
	CLM-8310-1.2	Hydroxyatrazine (ring- ¹³ C ₃ , 99%)	(CH ₃ CH ₂ NH)*C ₃ N ₃ (OH) (NHCH(CH ₃) ₂)	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	ULM-8317-1.2	Hydroxyatrazine (unlabeled)	(CH ₃ CH ₂ NH)C ₃ N ₃ (OH) (NHCH(CH ₃) ₂)	100 µg/mL in 80% water/ 20% diethylamine	1.2 mL
	DLM-8512-1.2	Imidacloprid (4,4,5,5-D ₄ , 98%)	C ₉ H ₆ D ₄ ClN ₅ O ₂	100 µg/mL in methanol	1.2 mL
	ULM-8513-1.2	Imidacloprid (unlabeled)	C ₉ H ₁₀ ClN ₅ O ₂	100 µg/mL in methanol	1.2 mL
	CLM-4727-1.2	Isodrin (¹³ C ₁₂ , 99%)	*C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
	ULM-7442-1.2	Isodrin (unlabeled)	C ₁₂ H ₈ Cl ₆	100 µg/mL in nonane	1.2 mL
	ERI-026	Isobutyl hydrogen methylphosphonate (unlabeled)	C ₅ H ₁₃ O ₃ P	1000 µg/mL in methanol	1.2 mL
	ERI-015	Isopropyl methylphosphonic acid (unlabeled)	C ₄ H ₁₁ O ₃ P	100 µg/mL in methanol	1.2 mL
	CLM-4814-1.2	Kepone (chlordecone) (¹³ C ₁₀ , 99%)	*C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
	ULM-2301-1.2	Kepone (chlordecone) (unlabeled)	C ₁₀ Cl ₁₀ O	100 µg/mL in nonane	1.2 mL
	ULM-2301-0.1			neat	0.1 g
	DLM-4476-1.2	Malathion (D ₁₀ , 99%)	C ₁₀ D ₁₀ H ₉ O ₆ PS ₂	100 µg/mL in nonane	1.2 mL
	ULM-8122-1.2	Malathion (unlabeled)	C ₁₀ H ₁₉ O ₆ PS ₂	100 µg/mL in nonane	1.2 mL
NEW	CLM-9050-1.2	Malathion diacid (¹³ C ₄ , 99%) CP 97%	*C ₄ C ₂ H ₁₁ O ₆ PS ₂	100 µg/mL in methanol	1.2 mL
NEW	ULM-9073-1.2	Malathion diacid (unlabeled)	C ₆ H ₁₁ O ₆ PS ₂	100 µg/mL in methanol	1.2 mL
NEW	DLM-7149-1.2	Methamidophos (dimethyl-D ₆ , 98%)	C ₂ D ₆ H ₂ NO ₂ PS	100 µg/mL in dioxane	1.2 mL
NEW	ULM-8872-1.2	Methamidophos (unlabeled)	C ₂ H ₈ NO ₂ PS	100 µg/mL in dioxane	1.2 mL
	CNLM-7148-1.2	Methomyl (acetohydroxamate- ¹³ C ₂ , 99%; ¹⁵ N, 98%)	*C ₂ C ₃ H ₁₀ N*NO ₂ S	100 µg/mL in methanol	1.2 mL
	ULM-8639-1.2	Methomyl (unlabeled)	C ₅ H ₁₀ NNO ₂ S	100 µg/mL in methanol	1.2 mL
	CLM-4683-1.2	Methoxychlor (ring- ¹³ C ₁₂ , 99%)	(CH ₃ O*C ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
	ULM-7440-1.2	Methoxychlor (unlabeled)	(CH ₃ OC ₆ H ₄) ₂ CHCCl ₃	100 µg/mL in nonane	1.2 mL
	CDLM-6100-1.2	Methylphosphonic acid (¹³ C, 99%; methyl-D ₃ , 98%)	*CD ₃ H ₂ O ₃ P	100 µg/mL in methanol	1.2 mL
	DLM-6196-1.2	Methylphosphonic acid (methyl-D ₃ , 98%)	CD ₃ P(O)(OH) ₂	100 µg/mL in methanol	1.2 mL
	ERM-038	Methylphosphonic acid (unlabeled)	CH ₃ P(O)(OH) ₂	100 µg/mL in methanol	1.2 mL
	CLM-6620-1.2	Methylphosphonic acid, mono-(1,2,2-trimethylpropyl) ester (trimethylpropyl- ¹³ C ₆ , 99%)	*C ₆ CH ₁₇ O ₃ P	100 µg/mL in methanol	1.2 mL
	CLM-3712-1.2	Metolachlor (ring- ¹³ C ₆ , 99%)	*C ₆ C ₉ H ₂₂ ClNO ₂	100 µg/mL in nonane	1.2 mL
	ULM-7314-1.2	Metolachlor (unlabeled)	C ₁₅ H ₂₂ ClNO ₂	100 µg/mL in nonane	1.2 mL
	CLM-4813-1.2	Mirex (¹³ C ₁₀ , 99%)	*C ₁₀ Cl ₁	100 µg/mL in nonane	1.2 mL
	CLM-2078-1	Mirex (¹³ C ₈ , 99%)	*C ₈ C ₂ Cl ₁₂	200 µg/mL in toluene	1 mL
	ULM-2427-1.2	Mirex (unlabeled)	C ₁₀ Cl ₁₂	100 µg/mL in nonane	1.2 mL
	ULM-2427-0.1			neat	0.1 g
	CLM-4811-1.2	cis-Nonachlor (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
	ULM-7445-1.2	cis-Nonachlor (unlabeled)	C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
	CLM-4735-1.2	trans-Nonachlor (¹³ C ₁₀ , 99%)	*C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
	ULM-7229-1.2	trans-Nonachlor (unlabeled)	C ₁₀ H ₅ Cl ₉	100 µg/mL in nonane	1.2 mL
	CLM-4729-1.2	Oxychlordane (¹³ C ₁₀ , 99%)	*C ₁₀ H ₄ Cl ₈ O	100 µg/mL in nonane	1.2 mL
	ULM-6139-1.2	Oxychlordane (unlabeled)	C ₁₀ H ₄ Cl ₈ O	100 µg/mL in nonane	1.2 mL
	ULM-6139-SM-1.2			100 µg/mL in methanol	1.2 mL
	DLM-7150-1.2	Oxydemeton methyl (O,O-dimethyl-D ₆ , 98%)	C ₆ D ₆ H ₉ O ₄ PS ₂	100 µg/mL in acetonitrile	1.2 mL
	ULM-8579-1.2	Oxydemeton methyl (unlabeled)	C ₆ H ₁₅ O ₄ PS ₂	100 µg/mL in acetonitrile	1.2 mL
	CLM-4538-1.2	Oxypyrimidine (diazinon metabolite) (methyl-4,5,6- ¹³ C ₄ , 99%)	*C ₄ C ₄ H ₁₂ N ₂ O	100 µg/mL in acetonitrile	1.2 mL
	ULM-7432-1.2	Oxypyrimidine (unlabeled)	C ₈ H ₁₂ N ₂ O	100 µg/mL in acetonitrile	1.2 mL
	DLM-2970-1.2	Parathion (diethyl-D ₁₀ , 98%)	C ₁₀ D ₁₀ H ₄ NO ₃ PS	100 µg/mL in nonane	1.2 mL
	ULM-8144-1.2	Parathion (unlabeled)	NO ₂ (C ₆ H ₄)OP(=S)(OC ₂ H ₅) ₂	100 µg/mL in nonane	1.2 mL
	CLM-7930-1.2	Parlar 26 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
	ULM-7828-1.2	Parlar 26 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
	CLM-8705-1.2	Parlar 32 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₁₁ Cl ₇	10 µg/mL in nonane	1.2 mL
	ULM-8665-1.2	Parlar 32 (unlabeled)	C ₁₀ H ₁₁ Cl ₇	10 µg/mL in nonane	1.2 mL
NEW	ULM-9005-1.2	Parlar 38 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
	CLM-8719-1.2	Parlar 39 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
	ULM-8767-1.2	Parlar 39 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
NEW	ULM-9430-1.2	Parlar 40 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
NEW	ULM-9431-1.2	Parlar 41 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL
NEW	ULM-9432-1.2	Parlar 44 (unlabeled)	C ₁₀ H ₁₀ Cl ₈	10 µg/mL in nonane	1.2 mL

Individual Pesticide and Pesticide Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
CLM-7931-1.2	Parlar 50 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
ULM-7829-1.2	Parlar 50 (unlabeled)	C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
CLM-7932-1.2	Parlar 62 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
ULM-7830-1.2	Parlar 62 (unlabeled)	C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
CLM-8720-1.2	Parlar 69 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
ULM-8768-1.2	Parlar 69 (unlabeled)	C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
CLM-8721-1.2	Parlar 70 (¹³ C ₁₀ , 99%)	*C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
ULM-8769-1.2	Parlar 70 (unlabeled)	C ₁₀ H ₉ Cl ₉	10 µg/mL in nonane	1.2 mL
CLM-7322-1.2	<i>cis</i> -Permethrin (phenoxy- ¹³ C ₆ , 99%)	*C ₆ H ₅ OC ₆ H ₄ CH ₂ CO ₂ C ₇ H ₉ Cl ₂ O ₃	50 µg/mL in nonane	1.2 mL
ULM-8526-1.2	<i>cis</i> -Permethrin (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CH ₂ CO ₂ C ₇ H ₉ Cl ₂ O ₃	50 µg/mL in nonane	1.2 mL
CLM-7323-1.2	<i>trans</i> -Permethrin (phenoxy- ¹³ C ₆ , 99%)	*C ₆ H ₅ OC ₆ H ₄ CH ₂ CO ₂ C ₇ H ₉ Cl ₂ O ₃	50 µg/mL in nonane	1.2 mL
ULM-8527-1.2	<i>trans</i> -Permethrin (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CH ₂ CO ₂ C ₇ H ₉ Cl ₂ O ₃	50 µg/mL in nonane	1.2 mL
CLM-4542-1.2	3-Phenoxybenzoic acid (phenoxy- ¹³ C ₆ , 99%)	*C ₆ H ₅ OC ₆ H ₄ CO ₂ H	100 µg/mL in nonane	1.2 mL
CLM-4542-SA-1.2	3-Phenoxybenzoic acid (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CO ₂ H	100 µg/mL in acetonitrile	1.2 mL
ULM-6781-1.2	3-Phenoxybenzoic acid (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CO ₂ H	100 µg/mL in nonane	1.2 mL
ULM-6781-SA-1.2	3-Phenoxybenzoic acid (unlabeled)	C ₆ H ₅ OC ₆ H ₄ CO ₂ H	100 µg/mL in acetonitrile	1.2 mL
CLM-3733-1.2	<i>o</i> -Phenylphenol (phenyl- ¹³ C ₆ , 99%)	*C ₆ C ₆ H ₁₀ O	100 µg/mL in nonane	1.2 mL
ULM-7396-1.2	<i>o</i> -Phenylphenol (unlabeled)	C ₁₂ H ₉ OH	100 µg/mL in nonane	1.2 mL
CLM-3748-1.2	<i>p</i> -Phenylphenol (phenyl- ¹³ C ₆ , 99%)	*C ₆ C ₆ H ₁₀ O	100 µg/mL in acetonitrile	1.2 mL
CLM-4544-1.2	Phorate (diethoxy- ¹³ C ₄ , 99%)	(*C ₂ H ₅ O) ₂ P(S)SCH ₂ SC ₂ H ₅	100 µg/mL in acetonitrile	1.2 mL
ULM-7567-1.2	Phorate (unlabeled)	(C ₂ H ₅ O) ₂ P(S)SCH ₂ SC ₂ H ₅	100 µg/mL in acetonitrile	1.2 mL
DLM-4667-1.2	Phosmet (dimethyl-D ₆ , 98%)	C ₁₁ H ₆ D ₆ NO ₄ PS ₂	100 µg/mL in acetonitrile	1.2 mL
ULM-8454-1.2	Phosmet (unlabeled)	C ₁₁ H ₁₂ NO ₄ PS ₂	100 µg/mL in acetonitrile	1.2 mL
CLM-3738-1.2	Propazine (ring- ¹³ C ₃ , 99%)	*C ₃ C ₄ H ₁₂ ClN ₅	100 µg/mL in methanol	1.2 mL
NEW ULM-8304	Propazine (unlabeled)	C ₉ H ₁₆ ClN ₅		Inquire
DLM-7141-1.2	Propoxur (isopropyl-D ₇ , 98%)	C ₁₁ D ₇ H ₈ NO ₃	100 µg/mL in nonane	1.2 mL
NEW ULM-9765-1.2	Propoxur (unlabeled)	C ₁₁ H ₁₅ NO ₃	100 µg/mL in nonane	1.2 mL
CLM-3739-1.2	Simazine (ring- ¹³ C ₃ , 99%)	*C ₃ C ₄ H ₁₂ ClN ₅	100 µg/mL in methanol	1.2 mL
NEW CLM-3739-A-1.2	Simazine (unlabeled)	C ₇ H ₁₂ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
NEW ULM-7893-1.2	Simazine (unlabeled)	C ₇ H ₁₂ ClN ₅	100 µg/mL in methanol	1.2 mL
NEW ULM-7893-A-1.2	Simazine (unlabeled)	C ₇ H ₁₂ ClN ₅	100 µg/mL in acetonitrile	1.2 mL
NEW CDLM-7943-1.2	Sodium monofluoroacetate (¹³ C ₂ , 99%; 2,2-D ₂ , 98%)	F*CD ₂ *CO ₂ Na	1 mg/mL in water	1.2 mL
NEW ULM-9674-1.2	Sodium monofluoroacetate (unlabeled)	FCH ₂ CO ₂ Na	1 mg/mL in water	1.2 mL
DLM-380-1.2	Styrene (D ₈ , 98%) + BHT	C ₆ D ₅ CD=CD ₂	100 µg/mL in nonane	1.2 mL
NEW CNLM-9869-1.2	Sulfoxaflor (cyano- ¹³ C, 99%; cyano- ¹⁵ N, imine- ¹⁵ N, 98%)	*CC ₉ H ₁₀ F ₃ *N ₂ NOS	100 µg/mL in methanol	1.2 mL
NEW ULM-9870-1.2	Sulfoxaflor (unlabeled)	C ₁₀ H ₁₀ F ₃ N ₂ NOS	100 µg/mL in methanol	1.2 mL
CLM-4543	Terbufos (diethoxy- ¹³ C ₄ , 99%)	C(CH ₃) ₃ SCH ₂ SP(S)(O*CH ₂ *CH ₃) ₂		Inquire
NEW CLM-9690-1.2	3-Tetrahydrofuroic acid (¹³ C ₅ , 99%)	*C ₅ H ₈ O ₃	100 µg/mL in MTBE	1.2 mL
NEW ULM-9691-1.2	3-Tetrahydrofuroic acid (unlabeled)	C ₅ H ₈ O ₃	100 µg/mL in MTBE	1.2 mL
NEW CLM-9652-1.2	Thiacloprid (pyridylmethyl- ¹³ C ₆ , 99%)	*C ₆ C ₄ H ₆ ClN ₄ S	100 µg/mL in methanol	1.2 mL
NEW ULM-9733-1.2	Thiacloprid (unlabeled)	C ₁₀ H ₉ ClN ₄ S	100 µg/mL in methanol	1.2 mL
NEW CNLM-9860-1.2	Thiamethoxam (thiazole- ¹³ C ₃ , 99%; ¹⁵ N, 98%)	*C ₃ C ₅ H ₁₀ Cl*NN ₄ O ₃ S		Inquire
NEW ULM-9939-1.2	Thiamethoxam (unlabeled)	C ₈ H ₁₀ ClN ₅ O ₃ S		Inquire
CLM-4551-1.2	2,4,5-Trichlorophenoxyacetic acid (2,4,5-T) (ring- ¹³ C ₆ , 99%)	*C ₆ C ₂ H ₅ Cl ₃ O ₃	100 µg/mL in MeCl	1.2 mL
ULM-7213-1.2	2,4,5-Trichlorophenoxyacetic acid (2,4,5-T) (unlabeled)	C ₆ H ₂ Cl ₃ OCH ₂ CO ₂ H	100 µg/mL in MeCl	1.2 mL
NEW CLM-9049-1.2	3,5,6-Trichloro-2-pyridinol (TCPY) (4,5,6- ¹³ C ₃ , 99%) CP 97%	*C ₃ C ₂ H ₂ Cl ₃ NO	100 µg/mL in acetonitrile	1.2 mL
NEW ULM-9204-1.2	3,5,6-Trichloro-2-pyridinol (TCPY) (unlabeled)	C ₅ H ₂ Cl ₃ NO	100 µg/mL in acetonitrile	1.2 mL
DLM-4479-1.2	Trifluralin (di- <i>n</i> -propyl-D ₁₄ , 98%)	C ₁₃ D ₁₄ H ₂ F ₃ N ₃ O ₄	100 µg/mL in nonane	1.2 mL
ULM-7236-1.2	Trifluralin (unlabeled)	C ₁₃ H ₁₄ H ₂ F ₃ N ₃ O ₄	100 µg/mL in nonane	1.2 mL

Stockholm Convention POPs Pesticide Standard Mixtures

Catalog No.	Compound	Amount
NEW ES-5464-A	Expanded POPs Pesticides Calibration Solutions with Endosulfan Sulfate [CS1-CS6]	Set of 6 × 0.2 mL in nonane

Individual calibration solutions are available. Please inquire.

Unlabeled	All concentrations are in ng/mL (ppb)					
	CS1	CS2	CS3	CS4	CS5	CS6
Hexachlorobenzene	0.4	2	10	40	200	800
Pentachlorobenzene	0.4	2	10	40	200	800
Aldrin	0.4	2	10	40	200	800
Dieldrin	0.4	2	10	40	200	800
Endrin	0.4	2	10	40	200	800
4,4'-DDT	0.4	2	10	40	200	800
4,4'-DDE	0.4	2	10	40	200	800
4,4'-DDD	0.4	2	10	40	200	800
2,4'-DDT	0.4	2	10	40	200	800
2,4'-DDE	0.4	2	10	40	200	800
2,4'-DDD	0.4	2	10	40	200	800
<i>trans</i> -Chlordane (γ)	0.4	2	10	40	200	800
<i>cis</i> -Chlordane (α)	0.4	2	10	40	200	800
<i>trans</i> -Nonachlor	0.4	2	10	40	200	800
<i>cis</i> -Nonachlor	0.4	2	10	40	200	800
Oxychlordane	0.4	2	10	40	200	800
Heptachlor	0.4	2	10	40	200	800
<i>trans</i> -Heptachlor epoxide	0.4	2	10	40	200	800
<i>cis</i> -Heptachlor epoxide	0.4	2	10	40	200	800
Mirex	0.4	2	10	40	200	800
Kepone (chlordecone)	0.4	2	10	40	200	800
α -HCH (α -BHC)	0.4	2	10	40	200	800
β -HCH (β -BHC)	0.4	2	10	40	200	800
γ -HCH (γ -BHC) (lindane)	0.4	2	10	40	200	800
δ -HCH (δ -BHC)	0.4	2	10	40	200	800
Endosulfan I	0.4	2	10	40	200	800
Endosulfan II	0.4	2	10	40	200	800
Endosulfan sulfate	0.4	2	10	40	200	800
Labeled						
Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
Pentachlorobenzene ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
Aldrin ($^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
Endrin ($^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
Dieldrin ($^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
4,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
4,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
2,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
2,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
2,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
<i>trans</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
<i>cis</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
Oxychlordane ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
Heptachlor ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
Mirex ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
Kepone (chlordecone) ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
α -HCH (α -BHC) ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
β -HCH (β -BHC) ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
δ -HCH (δ -BHC) ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
Endosulfan I ($^{13}\text{C}_9$, 99%)	20	20	20	20	20	20
Endosulfan II ($^{13}\text{C}_9$, 99%)	20	20	20	20	20	20
Endosulfan sulfate ($^{13}\text{C}_9$, 99%)	20	20	20	20	20	20
Syringe						
4,4'-DiCB ($^{13}\text{C}_{12}$, 99%) (PCB-15)	20	20	20	20	20	20
2,3',4',5-TetraCB ($^{13}\text{C}_{12}$, 99%) (PCB-70)	20	20	20	20	20	20
Sampling						
Isodrin ($^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20

Stockholm Convention POPs Pesticide Standard Mixtures

Catalog No.	Compound	Amount
ES-5464	Expanded POPs Pesticides Calibration Solutions [CS1-CS6]	Set of 6 × 0.2 mL in nonane

Individual calibration solutions are available. Please inquire.

Unlabeled	All concentrations are in ng/mL (ppb)					
	CS1	CS2	CS3	CS4	CS5	CS6
Hexachlorobenzene	0.4	2	10	40	200	800
Pentachlorobenzene	0.4	2	10	40	200	800
Aldrin	0.4	2	10	40	200	800
Dieldrin	0.4	2	10	40	200	800
Endrin	0.4	2	10	40	200	800
4,4'-DDT	0.4	2	10	40	200	800
4,4'-DDE	0.4	2	10	40	200	800
4,4'-DDD	0.4	2	10	40	200	800
2,4'-DDT	0.4	2	10	40	200	800
2,4'-DDE	0.4	2	10	40	200	800
2,4'-DDD	0.4	2	10	40	200	800
<i>trans</i> -Chlordane (γ)	0.4	2	10	40	200	800
<i>cis</i> -Chlordane (α)	0.4	2	10	40	200	800
<i>trans</i> -Nonachlor	0.4	2	10	40	200	800
<i>cis</i> -Nonachlor	0.4	2	10	40	200	800
Oxychlordane	0.4	2	10	40	200	800
Heptachlor	0.4	2	10	40	200	800
<i>trans</i> -Heptachlor epoxide	0.4	2	10	40	200	800
<i>cis</i> -Heptachlor epoxide	0.4	2	10	40	200	800
Mirex	0.4	2	10	40	200	800
Kepone (chlordecone)	0.4	2	10	40	200	800
α -HCH (α -BHC)	0.4	2	10	40	200	800
β -HCH (β -BHC)	0.4	2	10	40	200	800
γ -HCH (γ -BHC) (lindane)	0.4	2	10	40	200	800
δ -HCH (δ -BHC)	0.4	2	10	40	200	800
Endosulfan I	0.4	2	10	40	200	800
Endosulfan II	0.4	2	10	40	200	800
Labeled						
Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
Pentachlorobenzene ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
Aldrin ($^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
Endrin ($^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
Dieldrin ($^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
4,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
4,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
2,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
2,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
2,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20
<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
<i>trans</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
<i>cis</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
Oxychlordane ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
Heptachlor ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
Mirex ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
Kepone (chlordecone) ($^{13}\text{C}_{10}$, 99%)	20	20	20	20	20	20
α -HCH (α -BHC) ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
β -HCH (β -BHC) ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
δ -HCH (δ -BHC) ($^{13}\text{C}_6$, 99%)	20	20	20	20	20	20
Endosulfan I ($^{13}\text{C}_9$, 99%)	20	20	20	20	20	20
Endosulfan II ($^{13}\text{C}_9$, 99%)	20	20	20	20	20	20
Syringe						
4,4'-DiCB ($^{13}\text{C}_{12}$, 99%) (PCB-15)	20	20	20	20	20	20
2,3',4',5-TetraCB ($^{13}\text{C}_{12}$, 99%) (PCB-70)	20	20	20	20	20	20
Sampling						
Isodrin ($^{13}\text{C}_{12}$, 99%)	20	20	20	20	20	20

Stockholm Convention POPs Pesticide Standard Mixtures

Catalog No.	Compound	Amount
NEW ES-5465-A	Expanded POPs Pesticides Cleanup Spike with Endosulfan Sulfate	1.2 mL in nonane
NEW ES-5465-A-5X	Expanded POPs Pesticides Cleanup Spike with Endosulfan Sulfate (5X stock)	1.2 mL in nonane
ES-5465	Expanded POPs Pesticides Cleanup Spike	1.2 mL in nonane
ES-5465-5X	Expanded POPs Pesticides Cleanup Spike (5X stock)	1.2 mL in nonane

Labeled	ES-5465-A (ng/mL)	ES-5465-A-5X (ng/mL)	ES-5465 (ng/mL)	ES-5465-5X (ng/mL)
Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	100	500	100	500
Pentachlorobenzene ($^{13}\text{C}_6$, 99%)	100	500	100	500
Aldrin ($^{13}\text{C}_{12}$, 99%)	100	500	100	500
Endrin ($^{13}\text{C}_{12}$, 99%)	100	500	100	500
Dieldrin ($^{13}\text{C}_{12}$, 99%)	100	500	100	500
4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	100	500	100	500
4,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	100	500	100	500
4,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	100	500	100	500
2,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	100	500	100	500
2,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	100	500	100	500
2,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	100	500	100	500
<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	100	500	100	500
<i>trans</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	100	500	100	500
<i>cis</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	100	500	100	500
Oxychlordane ($^{13}\text{C}_{10}$, 99%)	100	500	100	500
Heptachlor ($^{13}\text{C}_{10}$, 99%)	100	500	100	500
<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10}$, 99%)	100	500	100	500
Mirex ($^{13}\text{C}_{10}$, 99%)	100	500	100	500
Kepone (chlordecone) ($^{13}\text{C}_{10}$, 99%)	100	500	100	500
α -HCH (α -BHC) ($^{13}\text{C}_6$, 99%)	100	500	100	500
β -HCH (β -BHC) ($^{13}\text{C}_6$, 99%)	100	500	100	500
γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_6$, 99%)	100	500	100	500
δ -HCH (δ -BHC) ($^{13}\text{C}_6$, 99%)	100	500	100	500
Endosulfan I ($^{13}\text{C}_9$, 99%)	100	500	100	500
Endosulfan II ($^{13}\text{C}_9$, 99%)	100	500	100	500
Endosulfan sulfate ($^{13}\text{C}_9$, 99%)	100	500	–	–

EC-5350	POPs Pesticides HRMS (PCB) Syringe Spike	1.2 mL in nonane
EC-5350-L	POPs Pesticides LRMS (PCB) Syringe Spike	0.5 mL in nonane

Labeled	ES-5350 (ng/mL)	ES-5350-L (ng/mL)
4,4'-DiCB ($^{13}\text{C}_{12}$, 99%) (PCB-15)	100	1000
2,3',4',5-TetraCB ($^{13}\text{C}_{12}$, 99%) (PCB-70)	100	1000

ES-5466	Expanded POPs Pesticides Sampling Spike	1.2 mL in nonane
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Labeled	(ng/mL)
Isodrin ($^{13}\text{C}_{12}$, 99%)	1000

Stockholm Convention POPs Pesticide Standard Mixtures

Catalog No.	Compound	Amount
NEW ES-5467-A	Expanded POPs Pesticides PAR Solution with Endosulfan Sulfate	1.2 mL in nonane
ES-5467	Expanded POPs Pesticides PAR Solution	1.2 mL in nonane

Unlabeled	ES-5467-A (ng/mL)	ES-5467 (ng/mL)
Hexachlorobenzene	1000	1000
Pentachlorobenzene	1000	1000
Aldrin	1000	1000
Dieldrin	1000	1000
Endrin	1000	1000
4,4'-DDT	1000	1000
4,4'-DDE	1000	1000
4,4'-DDD	1000	1000
2,4'-DDT	1000	1000
2,4'-DDE	1000	1000
2,4'-DDD	1000	1000
<i>trans</i> -Chlordane (γ)	1000	1000
<i>cis</i> -Chlordane (α)	1000	1000
<i>trans</i> -Nonachlor	1000	1000
<i>cis</i> -Nonachlor	1000	1000
Oxychlordane	1000	1000
Heptachlor	1000	1000
<i>trans</i> -Heptachlor epoxide	1000	1000
<i>cis</i> -Heptachlor epoxide	1000	1000
Mirex	1000	1000
Kepone (chlordecone)	1000	1000
α -HCH (α -BHC)	1000	1000
β -HCH (β -BHC)	1000	1000
γ -HCH (γ -BHC) (lindane)	1000	1000
δ -HCH (δ -BHC)	1000	1000
Endosulfan I	1000	1000
Endosulfan II	1000	1000
Endosulfan sulfate	1000	–

Toxaphene Standard Mixtures

Catalog No.	Compound	Amount
NEW ES-5543	US EPA Method 8276 Toxaphene Composite Stock Standard	1.2 mL in nonane
	Unlabeled (ng/mL)	
	Hx-Sed	1000
	Hp-Sed	1000
	Parlar 26	1000
	Parlar 40	1000
	Parlar 41	1000
	Parlar 44	1000
	Parlar 50	1000
	Parlar 62	1000
NEW ES-5544	US EPA Method 8276 Toxaphene Surrogate Standard	1.2 mL in nonane
	Labeled (ng/mL)	
	Parlar 26 ($^{13}\text{C}_{10}$, 99%)	100
	Parlar 50 ($^{13}\text{C}_{10}$, 99%)	100
	Parlar 62 ($^{13}\text{C}_{10}$, 99%)	100
NEW ES-5545	US EPA Method 8276 Toxaphene Injection Internal Standard	1.2 mL in nonane
	Labeled (ng/mL)	
	Parlar 39 ($^{13}\text{C}_{10}$, 99%)	100
ES-5352-L	POPs Toxaphene Surrogate Solution with PCB Syringe	1.2 mL in nonane
	Labeled (ng/mL)	
	<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	1000
ES-5353	Predominant Bioaccumulative Toxaphene Congeners (Parlar 26, 50 and 62)	1.2 mL in nonane
	Unlabeled (ng/mL)	
	Parlar 26	2000
	Parlar 50	2000
	Parlar 62	2000

Multiple Class Pesticide Standard Mixtures

Catalog No.	Compound	Amount
NEW ES-5516	EPA Method 1699 Pesticide Stock Solution	0.5 mL in nonane
	Labeled (ng/mL)	
	Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	1800
	γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_6$, 99%)	2600
	Heptachlor ($^{13}\text{C}_{10}$, 99%)	1400
	β -HCH (β -BHC) ($^{13}\text{C}_6$, 99%)	1600
	δ -HCH (δ -BHC) ($^{13}\text{C}_6$, 99%)	1600
	Aldrin ($^{13}\text{C}_{12}$, 99%)	1600
	Oxychlorane ($^{13}\text{C}_{10}$, 99%)	1600
	<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10}$, 99%)	1600
	Endosulfan I ($^{13}\text{C}_9$, 99%)	1600
	Dieldrin ($^{13}\text{C}_{12}$, 99%)	1600
	<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	1600
	<i>trans</i> -Nonachlor ($^{13}\text{C}_{10}$, 98%)	1600
	4,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	1600
	Endrin ($^{13}\text{C}_{12}$, 99%)	1600
	Endosulfan II ($^{13}\text{C}_9$, 99%)	1600
	<i>cis</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	1600
	2,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	1600
	4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	1600
	Mirex ($^{13}\text{C}_{10}$, 99%)	1600
	Methoxychlor (ring- $^{13}\text{C}_{12}$, 99%)	1600
	Azinphos-methyl (D_6 , 98%)	1600
	Diazinon (diethyl- D_{10} , 98%)	1600
	Fonofos (ring- $^{13}\text{C}_6$, 99%)	1600
	Atrazine (ring- $^{13}\text{C}_3$, 99%)	1600
	<i>cis</i> -Permethrin (phenoxy- $^{13}\text{C}_6$, 99%)	1600
	<i>trans</i> -Permethrin (phenoxy- $^{13}\text{C}_6$, 99%)	1600
NEW ES-5560	Multi-Class Pesticide Internal Standard	1.2 mL in acetonitrile
	Labeled (ng/mL)	
	Acetochlor (ring- $^{13}\text{C}_6$, 99%)	1000
	Aldicarb ($^{13}\text{C}_2$, 98%; D_3 , 98%)	1000
	Chlortoluron (<i>N,N</i> -dimethyl- D_6 , 98%)	1000
	Diazinon (diethyl- D_{10} , 98%)	1000
	2,4-Dichlorophenoxyacetic acid (ring- $^{13}\text{C}_6$, 99%)	1000
	Simazine (ring- $^{13}\text{C}_3$, 99%)	1000
NEW ES-5561	Multi-Class Pesticide Native Standard	1.2 mL in acetonitrile
	Unlabeled (ng/mL)	
	Acetochlor	1000
	Aldicarb	1000
	Chlortoluron	1000
	Diazinon	1000
	2,4-Dichlorophenoxyacetic acid	1000
	Simazine	1000

Pesticide Standard Mixtures

Catalog No.	Compound	Amount
ES-5348	POPs Pesticides Calibration Solutions [CS1-CS6]	Set of 6 × 0.2 mL in nonane

Individual calibration solutions are available. Please inquire.

All concentrations are in ng/mL (ppb)

Unlabeled	CS1	CS2	CS3	CS4	CS5	CS6
Hexachlorobenzene	0.4	2	10	40	200	800
Aldrin	0.4	2	10	40	200	800
Dieldrin	0.4	2	10	40	200	800
Endrin	0.4	2	10	40	200	800
4,4'-DDT	0.4	2	10	40	200	800
4,4'-DDE	0.4	2	10	40	200	800
4,4'-DDD	0.4	2	10	40	200	800
2,4'-DDT	0.4	2	10	40	200	800
2,4'-DDE	0.4	2	10	40	200	800
2,4'-DDD	0.4	2	10	40	200	800
<i>trans</i> -Chlordane (γ)	0.4	2	10	40	200	800
<i>cis</i> -Chlordane (α)	0.4	2	10	40	200	800
<i>trans</i> -Nonachlor	0.4	2	10	40	200	800
<i>cis</i> -Nonachlor	0.4	2	10	40	200	800
Oxychlordane	0.4	2	10	40	200	800
Heptachlor	0.4	2	10	40	200	800
<i>trans</i> -Heptachlor epoxide	0.4	2	10	40	200	800
<i>cis</i> -Heptachlor epoxide	0.4	2	10	40	200	800
Mirex	0.4	2	10	40	200	800
α -HCH (α -BHC)	0.4	2	10	40	200	800
β -HCH (β -BHC)	0.4	2	10	40	200	800
γ -HCH (γ -BHC) (lindane)	0.4	2	10	40	200	800
δ -HCH (δ -BHC)	0.4	2	10	40	200	800
Cleanup						
Hexachlorobenzene ($^{13}\text{C}_{6r}$, 99%)	20	20	20	20	20	20
Aldrin ($^{13}\text{C}_{12r}$, 99%)	20	20	20	20	20	20
Dieldrin ($^{13}\text{C}_{12r}$, 99%)	20	20	20	20	20	20
Endrin ($^{13}\text{C}_{12r}$, 99%)	20	20	20	20	20	20
4,4'-DDT (ring- $^{13}\text{C}_{12r}$, 99%)	20	20	20	20	20	20
4,4'-DDE (ring- $^{13}\text{C}_{12r}$, 99%)	20	20	20	20	20	20
4,4'-DDD (ring- $^{13}\text{C}_{12r}$, 99%)	20	20	20	20	20	20
2,4'-DDT (ring- $^{13}\text{C}_{12r}$, 99%)	20	20	20	20	20	20
2,4'-DDE (ring- $^{13}\text{C}_{12r}$, 99%)	20	20	20	20	20	20
2,4'-DDD (ring- $^{13}\text{C}_{12r}$, 99%)	20	20	20	20	20	20
<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10r}$, 99%)	20	20	20	20	20	20
<i>trans</i> -Nonachlor ($^{13}\text{C}_{10r}$, 99%)	20	20	20	20	20	20
<i>cis</i> -Nonachlor ($^{13}\text{C}_{10r}$, 99%)	20	20	20	20	20	20
Oxychlordane ($^{13}\text{C}_{10r}$, 99%)	20	20	20	20	20	20
Heptachlor ($^{13}\text{C}_{10r}$, 99%)	20	20	20	20	20	20
<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10r}$, 99%)	20	20	20	20	20	20
Mirex ($^{13}\text{C}_{10r}$, 99%)	20	20	20	20	20	20
α -HCH (α -BHC) ($^{13}\text{C}_{6r}$, 99%)	20	20	20	20	20	20
β -HCH (β -BHC) ($^{13}\text{C}_{6r}$, 99%)	20	20	20	20	20	20
γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_{6r}$, 99%)	20	20	20	20	20	20
δ -HCH (δ -BHC) ($^{13}\text{C}_{6r}$, 99%)	20	20	20	20	20	20
Syringe						
4,4'-DiCB ($^{13}\text{C}_{12r}$, 99%) (PCB-15)	20	20	20	20	20	20
2,3',4',5-TetraCB ($^{13}\text{C}_{12r}$, 99%) (PCB-70)	20	20	20	20	20	20

Pesticide Standard Mixtures

Catalog No.	Compound	Amount
ES-5349	POPs Pesticides HRMS Cleanup Spike	1.2 mL in nonane
ES-5400	POPs Cleanup Spike	1.2 mL in nonane
ES-5349-L	POPs Pesticides LRMS Cleanup Spike	0.5 mL in nonane

Labeled	ES-5349 (ng/mL)	ES-5400 (ng/mL)	ES-5349-L (ng/mL)
Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	100	200	1000
Aldrin ($^{13}\text{C}_{12}$, 99%)	100	200	1000
Dieldrin ($^{13}\text{C}_{12}$, 99%)	100	200	1000
Endrin ($^{13}\text{C}_{12}$, 99%)	100	200	1000
4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	100	200	1000
4,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	100	200	1000
4,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	100	200	1000
2,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	100	200	1000
2,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	100	200	1000
2,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	100	200	1000
<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	100	200	1000
<i>trans</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	100	200	1000
<i>cis</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	100	200	1000
Oxychlordane ($^{13}\text{C}_{10}$, 99%)	100	200	1000
Heptachlor ($^{13}\text{C}_{10}$, 99%)	100	200	1000
<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10}$, 99%)	100	200	1000
Mirex ($^{13}\text{C}_{10}$, 99%)	100	200	1000
α -HCH (α -BHC) ($^{13}\text{C}_6$, 99%)	100	200	1000
β -HCH (β -BHC) ($^{13}\text{C}_6$, 99%)	100	200	1000
γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_6$, 99%)	100	200	1000
δ -HCH (δ -BHC) ($^{13}\text{C}_6$, 99%)	100	200	1000

ES-5399	POPs PAR Solution	1.2 mL in nonane
ES-5399-10X-0.5	POPs PAR Solution (10X concentration)	0.5 mL in nonane

Unlabeled	ES-5399 (ng/mL)	ES-5399-10X-0.5 (ng/mL)
Hexachlorobenzene	200	2000
Aldrin	200	2000
Dieldrin	200	2000
Endrin	200	2000
4,4'-DDT	200	2000
4,4'-DDE	200	2000
4,4'-DDD	200	2000
2,4'-DDT	200	2000
2,4'-DDE	200	2000
2,4'-DDD	200	2000
<i>trans</i> -Chlordane (γ)	200	2000
<i>cis</i> -Chlordane (α)	200	2000
<i>trans</i> -Nonachlor	200	2000
<i>cis</i> -Nonachlor	200	2000
Oxychlordane	200	2000
Heptachlor	200	2000
<i>trans</i> -Heptachlor epoxide	200	2000
<i>cis</i> -Heptachlor epoxide	200	2000
Mirex	200	2000
α -HCH (α -BHC)	200	2000
β -HCH (β -BHC)	200	2000
γ -HCH (γ -BHC) (lindane)	200	2000
δ -HCH (δ -BHC)	200	2000

Pesticide Standard Mixtures

Catalog No.	Compound	Amount
EC-5350	POPs Pesticides HRMS (PCB) Syringe Spike	1.2 mL in nonane
NEW EC-5350-L	POPs Pesticides HRMS (PCB) Syringe Spike	1.2 mL in nonane

Labeled	EC-5350 (ng/mL)	EC-5350-L (ng/mL)
4,4'-DiCB ($^{13}\text{C}_{12}$, 99%) (PCB-15)	100	1000
2,3',4',5-TetraCB ($^{13}\text{C}_{12}$, 99%) (PCB-70)	100	1000

ES-5342	POPs Pesticides, non-Toxaphene, non-HCH HRMS Cleanup Spike	1.2 mL in nonane
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Labeled	(ng/mL)
Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	10
Aldrin ($^{13}\text{C}_{12}$, 99%)	100
Dieldrin ($^{13}\text{C}_{12}$, 99%)	20
Endrin ($^{13}\text{C}_{12}$, 99%)	100
4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	100
4,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	20
4,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	100
2,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	100
2,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	20
2,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	100
<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	10
<i>trans</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	10
<i>cis</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	10
Oxychlordane ($^{13}\text{C}_{10}$, 99%)	100
Heptachlor ($^{13}\text{C}_{10}$, 99%)	20
<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10}$, 99%)	20
Mirex ($^{13}\text{C}_{10}$, 99%)	20

ES-5344-50X-0.5	POPs HRMS HCH Cleanup Spike	0.5 mL in nonane
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Labeled	(ng/mL)
α -HCH (α -BHC) ($^{13}\text{C}_6$, 99%)	1000
β -HCH (β -BHC) ($^{13}\text{C}_6$, 99%)	1000
γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_6$, 99%)	1000
δ -HCH (δ -BHC) ($^{13}\text{C}_6$, 99%)	1000

Pesticide Standard Mixtures

Catalog No.	Compound	Amount									
ES-5019-A	Persistent Pesticide Calibration Solutions [CS1-CS10]	Set of 10 × 0.25 mL in nonane									
ES-5019-A-CS1-8	Persistent Pesticide Calibration Solutions [CS1-CS8]	Set of 8 × 0.25 mL in nonane									
ES-5019-A-CS9-10	Persistent Pesticide Calibration Solutions [CS9-CS10]	Set of 2 × 0.25 mL in nonane									
<i>All concentrations are in ng/mL (ppb)</i>											
Unlabeled		CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	CS10
Hexachlorobenzene		1.0	2.5	10	35	100	300	500	1000		
β-HCH (β-BHC)		1.0	2.5	10	35	100	300	500	1000		
γ-HCH (γ-BHC) (lindane)		1.0	2.5	10	35	100	300	500	1000		
cis-Heptachlor epoxide (B isomer)		1.0	2.5	10	35	100	300	500	1000		
Oxychlorane		1.0	2.5	10	35	100	300	500	1000		
trans-Nonachlor		1.0	2.5	10	35	100	300	500	1000		
4,4'-DDE		1.0	2.5	10	35	100	300	500	1000	3000	6000
Dieldrin		1.0	2.5	10	35	100	300	500	1000		
2,4'-DDT		1.0	2.5	10	35	100	300	500	1000	3000	6000
4,4'-DDT		1.0	2.5	10	35	100	300	500	1000		
Mirex		1.0	2.5	10	35	100	300	500	1000		
Dechlorane Plus <i>syn</i>		1.0	2.5	10	35	100	300	500	1000		
Dechlorane Plus <i>anti</i>		1.0	2.5	10	35	100	300	500	1000		
Labeled											
Hexachlorobenzene (¹³ C ₆ , 99%)		100	100	100	100	100	100	100	100	100	100
Dieldrin (¹³ C ₁₂ , 99%)		100	100	100	100	100	100	100	100	100	100
β-HCH (β-BHC) (¹³ C ₆ , 99%)		100	100	100	100	100	100	100	100	100	100
γ-HCH (γ-BHC) (lindane) (¹³ C ₆ , 99%)		100	100	100	100	100	100	100	100	100	100
cis-Heptachlor epoxide (¹³ C ₁₀ , 99%)		100	100	100	100	100	100	100	100	100	100
Oxychlorane (¹³ C ₁₀ , 99%)		100	100	100	100	100	100	100	100	100	100
trans-Nonachlor (¹³ C ₁₀ , 99%)		100	100	100	100	100	100	100	100	100	100
Mirex (¹³ C ₁₀ , 99%)		100	100	100	100	100	100	100	100	100	100
2,4'-DDT (ring- ¹³ C ₁₂ , 99%)		100	100	100	100	100	100	100	100	100	100
4,4'-DDT (ring- ¹³ C ₁₂ , 99%)		100	100	100	100	100	100	100	100	100	100
4,4'-DDE (ring- ¹³ C ₁₂ , 99%)		250	250	250	250	250	250	250	250	250	250
Recovery											
1,2,3,4-TetraCDD (¹³ C ₆ , 99%)		25	25	25	25	25	25	25	25	25	25
2,2',3,3',4,5,5',6,6'-NonaCB (¹³ C ₁₂ , 99%) (PCB-208)		100	100	100	100	100	100	100	100	100	100
3,3',4,4'-TetraBDE (¹³ C ₁₂ , 99%) (BDE-77)		75	75	75	75	75	75	75	75	75	75
2,2',3,4,4',6-HexaBDE (¹³ C ₁₂ , 99%) (BDE-139)		75	75	75	75	75	75	75	75	75	75

ES-5177-5X10	Persistent Pesticide Spiking Solution	5 × 10 mL in methanol
ES-5021	Persistent Pesticide Spiking Solution	2.5 mL in nonane
ES-5177-500X-N-0.5	Persistent Pesticide Spiking Solution	0.5 mL in nonane

	ES-5177-5X10 (ng/mL)	ES-5021 (ng/mL)	ES-5177-500X-N-0.5 (ng/mL)
Labeled			
Hexachlorobenzene (¹³ C ₆ , 99%)	10	100	5000
Dieldrin (¹³ C ₁₂ , 99%)	10	100	5000
β-HCH (β-BHC) (¹³ C ₆ , 99%)	10	100	5000
γ-HCH (γ-BHC) (lindane) (¹³ C ₆ , 99%)	10	100	5000
cis-Heptachlor epoxide (¹³ C ₁₀ , 99%)	10	100	5000
Oxychlorane (¹³ C ₁₀ , 99%)	10	100	5000
trans-Nonachlor (¹³ C ₁₀ , 99%)	10	100	5000
Mirex (¹³ C ₁₀ , 99%)	10	100	5000
2,4'-DDT (ring- ¹³ C ₁₂ , 99%)	10	100	5000
4,4'-DDT (ring- ¹³ C ₁₂ , 99%)	10	100	5000
4,4'-DDE (ring- ¹³ C ₁₂ , 99%)	25	250	12,500

Pesticide Standard Mixtures

Catalog No.	Compound	Amount
ES-5442	CDC POPs (with Parlars) Calibration Solutions [CS1-CS9]	Set of 9 × 0.5 mL in nonane

Individual calibration solutions are available. Please inquire.

Unlabeled	All concentrations are in ng/mL (ppb)									
	CS1	CS2	CS3	CS4	CS5	CS6	CS7	CS8	CS9	
Parlar 26	2.5	5	10	30	100	300	1000			
Parlar 50	2.5	5	10	30	100	300	1000			
Parlar 62	2.5	5	10	30	100	300	1000			
Hexachlorobenzene	2.5	5	10	30	100	300	1000			
β-HCH (β-BHC)	2.5	5	10	30	100	300	1000			
γ-HCH (γ-BHC) (lindane)	2.5	5	10	30	100	300	1000			
Aldrin	2.5	5	10	30	100	300	1000			
cis-Heptachlor epoxide	2.5	5	10	30	100	300	1000			
Oxychlorane	2.5	5	10	30	100	300	1000			
trans-Nonachlor	2.5	5	10	30	100	300	1000			
4,4'-DDE	2.5	5	10	30	100	300	1000	3000	7500	
Dieldrin	2.5	5	10	30	100	300	1000			
Endrin	2.5	5	10	30	100	300	1000			
Isodrin	2.5	5	10	30	100	300	1000			
2,4'-DDT	2.5	5	10	30	100	300	1000	3000	7500	
4,4'-DDT	2.5	5	10	30	100	300	1000			
Mirex	2.5	5	10	30	100	300	1000			
α-HCH (α-BHC)	2.5	5	10	30	100	300	1000			
cis-Chlordane (α)	2.5	5	10	30	100	300	1000			
trans-Chlordane (γ)	2.5	5	10	30	100	300	1000			
2,4'-DDE	2.5	5	10	30	100	300	1000			
cis-Nonachlor	2.5	5	10	30	100	300	1000			
Methoxychlor	2.5	5	10	30	100	300	1000			
Pentachloroanisole	2.5	5	10	30	100	300	1000			
Octachlorostyrene	2.5	5	10	30	100	300	1000			
Labeled										
Parlar 26 (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
Parlar 50 (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
Parlar 62 (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
Hexachlorobenzene (¹³ C ₆ , 99%)	75	75	75	75	75	75	75	75	75	75
β-HCH (β-BHC) (¹³ C ₆ , 99%)	75	75	75	75	75	75	75	75	75	75
γ-HCH (γ-BHC) (lindane) (¹³ C ₆ , 99%)	75	75	75	75	75	75	75	75	75	75
Aldrin (¹³ C ₁₂ , 99%)	75	75	75	75	75	75	75	75	75	75
cis-Heptachlor epoxide (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
Oxychlorane (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
trans-Nonachlor (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
4,4'-DDE (ring- ¹³ C ₁₂ , 99%)	150	150	150	150	150	150	150	150	150	150
Dieldrin (¹³ C ₁₂ , 99%)	75	75	75	75	75	75	75	75	75	75
Endrin (¹³ C ₁₂ , 99%)	75	75	75	75	75	75	75	75	75	75
Isodrin (¹³ C ₁₂ , 99%)	75	75	75	75	75	75	75	75	75	75
2,4'-DDT (ring- ¹³ C ₁₂ , 99%)	75	75	75	75	75	75	75	75	75	75
4,4'-DDT (ring- ¹³ C ₁₂ , 99%)	75	75	75	75	75	75	75	75	75	75
Mirex (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
α-HCH (α-BHC) (¹³ C ₆ , 99%)	75	75	75	75	75	75	75	75	75	75
cis-Chlordane (α) (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
trans-Chlordane (γ) (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
2,4'-DDE (ring- ¹³ C ₁₂ , 99%)	75	75	75	75	75	75	75	75	75	75
cis-Nonachlor (¹³ C ₁₀ , 99%)	75	75	75	75	75	75	75	75	75	75
Methoxychlor (ring- ¹³ C ₁₂ , 99%)	75	75	75	75	75	75	75	75	75	75
Pentachloroanisole (¹³ C ₆ , 99%)	75	75	75	75	75	75	75	75	75	75
Octachlorostyrene (¹³ C ₈ , 99%)	75	75	75	75	75	75	75	75	75	75
Recovery										
1,2,3,4-TetraCDD (¹³ C ₆ , 99%)	25	25	25	25	25	25	25	25	25	25
2,2',3,3',4,5,5',6,6'-NonaCB (¹³ C ₁₂ , 99%) (PCB-208)	100	100	100	100	100	100	100	100	100	100
3,3',4,4'-TetraBDE (¹³ C ₁₂ , 99%) (BDE-77)	75	75	75	75	75	75	75	75	75	75
2,2',3,4,4',6-HexaBDE (¹³ C ₁₂ , 99%) (BDE-139)	75	75	75	75	75	75	75	75	75	75

Pesticide Standard Mixtures

Catalog No.	Compound	Amount
NEW ES-5449-10	CDC POPs (with Parlars) Spiking Standard	10 mL in nonane
NEW ES-5449-100X-1.2	CDC POPs (with Parlars) Spiking Standard (100X stock)	1.2 mL in nonane

Labeled	ES-5449-10 (ng/mL)	ES-5449-100X-1.2 (ng/mL)
Parlar 26 ($^{13}\text{C}_{10}$, 99%)	7.5	750
Parlar 50 ($^{13}\text{C}_{10}$, 99%)	7.5	750
Parlar 62 ($^{13}\text{C}_{10}$, 99%)	7.5	750
Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	7.5	750
β -HCH (β -BHC) ($^{13}\text{C}_6$, 99%)	7.5	750
γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_6$, 99%)	7.5	750
Aldrin ($^{13}\text{C}_{12}$, 99%)	7.5	750
<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10}$, 99%)	7.5	750
Oxychlorane ($^{13}\text{C}_{10}$, 99%)	7.5	750
<i>trans</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	7.5	750
4,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	15.0	1500
Dieldrin ($^{13}\text{C}_{12}$, 99%)	7.5	750
Endrin ($^{13}\text{C}_{12}$, 99%)	7.5	750
Isodrin ($^{13}\text{C}_{12}$, 99%)	7.5	750
2,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	7.5	750
4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	7.5	750
Mirex ($^{13}\text{C}_{10}$, 99%)	7.5	750
α -HCH (α -BHC) ($^{13}\text{C}_6$, 99%)	7.5	750
<i>cis</i> -Chlordane (α) ($^{13}\text{C}_{10}$, 99%)	7.5	750
<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	7.5	750
2,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	7.5	750
<i>cis</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	7.5	750
Methoxychlor (ring- $^{13}\text{C}_{12}$, 99%)	7.5	750
Pentachloroanisole ($^{13}\text{C}_6$, 99%)	7.5	750
Octachlorostyrene ($^{13}\text{C}_8$, 99%)	7.5	750

ES-5321	Multi-Analyte Recovery Spiking Standard	10 mL in 88% hexane/2% dodecane/10% nonane
NEW ES-5321-5X10	Multi-Analyte Recovery Spiking Standard	5 x 10 mL in 88% hexane/2% dodecane/10% nonane
NEW ES-5321-200X-1.2	Multi-Analyte Recovery Spiking Standard	1.2 mL in nonane

Labeled	ES-5321 (ng/mL)	ES-5321-200X-1.2 (ng/mL)
1,2,3,4-TetraCDD ($^{13}\text{C}_6$, 99%)	2.5	500
2,2',3,3',4,5,5',6,6'-NonaCB ($^{13}\text{C}_{12}$, 99%) (PCB-208)	10	2000
3,3',4,4'-TetraBDE ($^{13}\text{C}_{12}$, 99%) (BDE-77)	7.5	1500
2,2',3,4,4',6-HexaBDE ($^{13}\text{C}_{12}$, 99%) (BDE-139)	7.5	1500

Pesticide Standard Mixtures

Catalog No.	Compound	Amount
ES-5261-1.2	Persistent Organic Pollutants Cleanup Spike	1.2 mL in nonane

Labeled	(ng/mL)
Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	1000
α -HCH (α -BHC) ($^{13}\text{C}_6$, 99%)	1000
β -HCH (β -BHC) ($^{13}\text{C}_6$, 99%)	1000
γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_6$, 99%)	1000
Aldrin ($^{13}\text{C}_{12}$, 99%)	1000
Dieldrin ($^{13}\text{C}_{12}$, 99%)	1000
Endrin ($^{13}\text{C}_{12}$, 99%)	1000
<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	1000
Oxychlordane ($^{13}\text{C}_{10}$, 99%)	1000
<i>trans</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	1000
Heptachlor ($^{13}\text{C}_{10}$, 99%)	1000
<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10}$, 99%)	1000
4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	1000
4,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	1000
4,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	1000

NEW ES-5478	Pesticide Stock Solution 1	0.5 mL in nonane
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Labeled	(ng/mL)
α -HCH (α -BHC) ($^{13}\text{C}_6$, 99%)	5000
δ -HCH (δ -BHC) ($^{13}\text{C}_6$, 99%)	5000
Dieldrin ($^{13}\text{C}_{12}$, 99%)	5000
γ -HCH (γ -BHC) (lindane) ($^{13}\text{C}_6$, 99%)	5000
<i>cis</i> -Heptachlor epoxide ($^{13}\text{C}_{10}$, 99%)	5000
Heptachlor ($^{13}\text{C}_{10}$, 99%)	5000
Oxychlordane ($^{13}\text{C}_{10}$, 99%)	5000
2,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	5000
2,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	5000
2,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	5000
4,4'-DDD (ring- $^{13}\text{C}_{12}$, 99%)	5000
4,4'-DDE (ring- $^{13}\text{C}_{12}$, 99%)	5000
4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	5000
<i>cis</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	5000
<i>trans</i> -Nonachlor ($^{13}\text{C}_{10}$, 99%)	5000
<i>trans</i> -Chlordane (γ) ($^{13}\text{C}_{10}$, 99%)	5000
Mirex ($^{13}\text{C}_{10}$, 99%)	5000

NEW ES-5479	Pesticide Stock Solution 2	0.5 mL in nonane
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Labeled	(ng/mL)
Pentachlorobenzene ($^{13}\text{C}_5$, 99%)	5000
Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	5000
β -HCH (β -BHC) ($^{13}\text{C}_6$, 99%)	5000
Aldrin ($^{13}\text{C}_{12}$, 99%)	5000
Endosulfan I ($^{13}\text{C}_9$, 99%)	5000
Endosulfan II ($^{13}\text{C}_9$, 99%)	5000
Endrin ($^{13}\text{C}_{12}$, 99%)	5000
<i>cis</i> -Chlordane (α) ($^{13}\text{C}_{10}$, 99%)	5000

Pesticide Standard Mixtures

Catalog No.	Compound	Amount
NEW ES-5475	Pesticide Stock Solution 1	1.2 mL in nonane
	Unlabeled (ng/mL)	
	α -HCH (α -BHC)	5000
	δ -HCH (δ -BHC)	5000
	Dieldrin	5000
	γ -HCH (γ -BHC) (lindane)	5000
	<i>trans</i> -Heptachlor epoxide	5000
	<i>cis</i> -Heptachlor epoxide	5000
	Heptachlor	5000
	Oxychlordane	5000
	2,4'-DDD	5000
	2,4'-DDE	5000
	2,4'-DDT	5000
	4,4'-DDD	5000
	4,4'-DDE	5000
	4,4'-DDT	5000
	<i>cis</i> -Nonachlor	5000
	<i>trans</i> -Nonachlor	5000
	<i>trans</i> -Chlordane (γ)	5000
	Mirex	5000
NEW ES-5476	Pesticide Stock Solution 2	1.2 mL in nonane
	Unlabeled (ng/mL)	
	Pentachlorobenzene	5000
	Trifluralin	5000
	Hexachlorobenzene	5000
	β -HCH (β -BHC)	5000
	Aldrin	5000
	Endosulfan I	5000
	Endosulfan II	5000
	Endrin	5000
	<i>cis</i> -Chlordane (α)	5000
	Endrin aldehyde	5000
NEW ES-5499-2.2	PCB/Pollutant Mixture	2.2 mL in hexane
	Labeled (ng/mL)	
	2,4,4'-TriCB ($^{13}\text{C}_{12}$, 99%) (PCB-28)	10,000
	2,2',5,5'-TetraCB ($^{13}\text{C}_{12}$, 99%) (PCB-52)	10,000
	2,2',4,5,5'-PentaCB ($^{13}\text{C}_{12}$, 99%) (PCB-101)	10,000
	2,2',4,4',5,5'-HexaCB ($^{13}\text{C}_{12}$, 99%) (PCB-153)	10,000
	4,4'-DDT (ring- $^{13}\text{C}_{12}$, 99%)	10,000
	Hexachlorobenzene ($^{13}\text{C}_6$, 99%)	50,000
	1,2,4,5-Tetrachlorobenzene ($^{13}\text{C}_6$, 99%)	50,000
NEW ES-5501	PCB/Pollutant Native Mixture	1.2 mL in hexane
	Unlabeled (ng/mL)	
	2,4,4'-TriCB (PCB-28)	10,000
	2,2',5,5'-TetraCB (PCB-52)	10,000
	2,2',4,5,5'-PentaCB (PCB-101)	10,000
	2,2',4,4',5,5'-HexaCB (PCB-153)	10,000
	4,4'-DDT	10,000
	Hexachlorobenzene	50,000
	1,2,4,5-Tetrachlorobenzene	50,000

Pesticide Standard Mixtures

Catalog No.	Compound	Amount	
NEW ES-5521	Multi-Functional PAR Spike	1.2 mL in nonane	
Unlabeled Dioxins			
	IUPAC	(ng/mL)	
2,3,7,8-TetraCDD		200	
1,2,3,7,8-PentaCDD		200	
1,2,3,4,7,8-HexaCDD		200	
1,2,3,6,7,8-HexaCDD		200	
1,2,3,7,8,9-HexaCDD		200	
1,2,3,4,6,7,8-HeptaCDD		200	
OctaCDD		200	
2,3,7,8-TetraCDF		200	
1,2,3,7,8-PentaCDF		200	
2,3,4,7,8-PentaCDF		200	
1,2,3,4,7,8-HexaCDF		200	
1,2,3,6,7,8-HexaCDF		200	
1,2,3,7,8,9-HexaCDF		200	
2,3,4,6,7,8-HexaCDF		200	
1,2,3,4,6,7,8-HeptaCDF		200	
1,2,3,4,7,8,9-HeptaCDF		200	
OctaCDF		200	
Unlabeled PCBs			
2-MonoCB	1	200	
4-MonoCB	3	200	
2,2'-DiCB	4	200	
4,4'-DiCB	15	200	
2,2',6-TriCB	19	200	
3,4,4'-TriCB	37	200	
2,2',6,6'-TetraCB	54	200	
3,3',4,4'-TetraCB	77	200	
3,4,4',5-TetraCB	81	200	
2,2',4,6,6'-PentaCB	104	200	
2,3,3',4,4'-PentaCB	105	200	
2,3,4,4',5-PentaCB	114	200	
2,3',4,4',5-PentaCB	118	200	
2',3,4,4',5-PentaCB	123	200	
3,3',4,4',5-PentaCB	126	200	
2,2',4,4',6,6'-HexaCB	155	200	
2,3,3',4,4',5-HexaCB	156	200	
2,3,3',4,4',5'-HexaCB	157	200	
2,3',4,4',5,5'-HexaCB	167	200	
3,3',4,4',5,5'-HexaCB	169	200	
2,2',3,4',5,6,6'-HeptaCB	188	200	
2,3,3',4,4',5,5'-HeptaCB	189	200	
2,2',3,3',5,5',6,6'-OctaCB	202	200	
2,3,3',4,4',5,5',6-OctaCB	205	200	
2,2',3,3',4,4',5,5',6-NonaCB	206	200	
2,2',3,3',4,5,5',6,6'-NonaCB	208	200	
DecaCB	209	200	
Unlabeled PBDEs			
	IUPAC	(ng/mL)	
4-MonoBDE	3	200	
2,4-DiBDE	4	200	
4,4'-DiBDE	15	200	
2,2',4-TriBDE	17	200	
2,4,4'-TriBDE	28	200	
2,2',4,4'-TetraBDE	47	200	
2,2',4,5'-TetraBDE	49	200	
2,3',4,4'-TetraBDE	66	200	
2,3',4',6-TetraBDE	71	200	
3,3',4,4'-TetraBDE	77	200	
2,2',3,4,4'-PentaBDE	85	200	
2,2',4,4',5-PentaBDE	99	200	
2,2',4,4',6-PentaBDE	100	200	
2,3',4,4',6-PentaBDE	119	200	
3,3',4,4',5-PentaBDE	126	200	
2,2',3,4,4',5'-HexaBDE	138	400	
2,2',4,4',5,5'-HexaBDE	153	400	
2,2',4,4',5,6'-HexaBDE	154	400	
2,2',4,4',6,6'-HexaBDE	155	400	
2,3,4,4',5,6-HexaBDE	166	400	
2,2',3,4,4',5,6-HeptaBDE	181	400	
2,2',3,4,4',5',6-HeptaBDE	183	400	
2,3,3',4,4',5,6-HeptaBDE	190	400	
2,2',3,4,4',5,5',6-OctaBDE	203	400	
2,3,3',4,4',5,5',6-OctaBDE	205	400	
2,2',3,3',4,4',5,5',6-NonaBDE	206	1000	
2,2',3,3',4,4',5,6,6'-NonaBDE	207	1000	
DecaBDE	209	1000	
Unlabeled Pesticides			
Pentachlorobenzene		200	
Hexachlorobenzene		200	
α-HCH (α-BHC)		200	
β-HCH (β-BHC)		200	
γ-HCH (γ-BHC) (lindane)		200	
δ-HCH (δ-BHC)		200	
Heptachlor		200	
cis-Heptachlor epoxide		200	
trans-Heptachlor epoxide		200	
cis-Nonachlor		200	
trans-Nonachlor		200	
cis-Chlordane (α)		200	
trans-Chlordane (β)		200	
Oxychlordane		200	
2,4'-DDD		200	
4,4'-DDD		200	
2,4'-DDE		200	
4,4'-DDE		200	
2,4'-DDT		200	
4,4'-DDT		200	
Aldrin		200	
Dieldrin		200	
Endrin		200	
Mirex		200	
Chlordecone (kepone)		200	
Endosulfan I		200	
Endosulfan II		200	

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Pesticide Standard Mixtures

(continued from previous page)

NEW	ES-5521	Multi-Functional PAR Spike (continued)	1.2 mL in nonane
		Unlabeled PAHs	(ng/mL)
		Acenaphthene	200
		Acenaphthylene	200
		Anthracene	200
		Benzo[a]anthracene	200
		Benzo[b]fluoranthene	200
		Benzo[k]fluoranthene	200
		Benzo[ghi]perylene	200
		Benzo[a]pyrene	200
		Chrysene	200
		Dibenz[a,h]anthracene	200
		Fluoranthene	200
		Fluorene	200
		Indeno[1,2,3-cd]pyrene	200
		Naphthalene	200
		Phenanthrene	200
		Pyrene	200

Chemical Weapon Metabolite Standards

	Catalog No.	Compound	Formula	Concentration	Amount
	CDNLM-6786-1.2	Aminomethylphosphonic acid (AMPA)	*CH ₄ D ₂ *NO ₃ P	100 µg/mL in H ₂ O	1.2 mL
NEW	CDNLM-6786-10	(¹³ C, 99%; ¹⁵ N, 98%, methylene-D ₂ , 98%)			10 mL
NEW	ULM-9897-1.2	Diethyl methylphosphonate (unlabeled)	CH ₃ P(O)(OC ₂ H ₅) ₂	1000 µg/mL in methanol	1.2 mL
NEW	ULM-9898-1.2	Diisopropyl methylphosphonate (unlabeled)	C ₇ H ₁₇ O ₃ P	1000 µg/mL in methanol	1.2 mL
NEW	ULM-9896-1.2	Dimethyl methylphosphonate (unlabeled)	C ₃ H ₉ O ₃ P	1000 µg/mL in methanol	1.2 mL
NEW	DLM-4851-M-1.2	O,O-Diethyl phosphate, potassium salt (DEP) (diethyl-D ₁₀ , 98%)	C ₄ D ₁₀ KO ₄ P	100 µg/mL in methanol	1.2 mL
NEW	ULM-9287-M-1.2	O,O-Diethyl phosphate, potassium salt (DEP)	C ₄ H ₁₀ KO ₄ P	100 µg/mL in methanol	1.2 mL
NEW	ULM-9287-M-20X-1.2	(unlabeled)		2 mg/mL in methanol	1.2 mL
	DLM-4852-1.2	O,O-Diethyl thiophosphate, potassium salt (DETP) (diethyl-D ₁₀ , 98%)	C ₄ D ₁₀ KO ₃ PS	100 µg/mL in methanol	1.2 mL
	ERD-119	O,O-Diethyl thiophosphate, potassium salt (DETP) (unlabeled)	C ₄ H ₁₀ KO ₃ PS	1000 µg/mL in methanol	1.2 mL
NEW	DLM-9003-1.2	O,O-Diethyl dithiophosphate, potassium salt (DEDTP) (diethyl-D ₁₀ , 98%)	C ₄ D ₁₀ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
NEW	ULM-9002-1.2	O,O-Diethyl dithiophosphate, potassium salt (DEDTP)	C ₄ H ₁₀ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
NEW	ULM-9002-20X-1.2	(unlabeled)		2 mg/mL in methanol	1.2 mL
NEW	DLM-8868-1.2	O,O-Dimethyl phosphoric acid, potassium salt (DMP) (dimethyl-D ₆ , 98%)	C ₂ D ₆ KO ₄ P	100 µg/mL in methanol	1.2 mL
NEW	ULM-8867-1.2	O,O-Dimethyl phosphoric acid, potassium salt (DMP)	C ₂ H ₆ KO ₄ P	100 µg/mL in methanol	1.2 mL
NEW	ULM-8867-20X-1.2	(unlabeled)		2 mg/mL in methanol	1.2 mL
NEW	DLM-8904-1.2	O,O-Dimethyl thiophosphate, potassium salt (DMTP) (dimethyl-D ₆ , 98%) CP 97%	C ₂ D ₆ KO ₃ PS	100 µg/mL in methanol	1.2 mL
NEW	ULM-8905-1.2	O,O-Dimethyl thiophosphate, potassium salt (DMTP)	C ₂ H ₆ KO ₃ PS	1000 µg/mL in methanol	1.2 mL
NEW	ULM-8905-2X-1.2	(unlabeled) CP 97%		2 mg/mL in methanol	1.2 mL
NEW	DLM-4541-M-1.2	O,O-Dimethyl dithiophosphate, potassium salt (DMDTP) (dimethyl-D ₆ , 98%)	C ₂ D ₆ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
NEW	ULM-9004-1.2	O,O-Dimethyl dithiophosphate, potassium salt (DMDTP)	C ₂ H ₆ KO ₂ PS ₂	100 µg/mL in methanol	1.2 mL
NEW	ULM-9004-20X-1.2	(unlabeled)		2 mg/mL in methanol	1.2 mL
NEW	ULM-9899-1.2	Dipinacolyl methylphosphonate (unlabeled)	C ₁₃ H ₂₉ O ₃ P	1000 µg/mL in methanol	1.2 mL
NEW	ULM-9887-1.2	1,4-Dithiane (unlabeled)	C ₄ H ₈ S ₂	1000 µg/mL in methanol	1.2 mL
	ULM-6091-1.2	Ethyl hydrogen dimethylamidophosphate, sodium salt (unlabeled) CP 90%	C ₄ H ₁₁ NPO ₃ Na	1000 µg/mL in methanol	1.2 mL
	DLM-6098-1.2	Ethyl hydrogen methylphosphonate (ethyl-D ₅ , 98%)	C ₃ H ₄ D ₅ O ₃ P	100 µg/mL in methanol	1.2 mL
NEW	ULM-9893-1.2	N-Ethyl diethanolamine (unlabeled)	(HOCH ₂ CH ₂) ₂ NC ₂ H ₅	1000 µg/mL in methanol	1.2 mL
NEW	ULM-9948-1.2	Ethylphosphonic acid (unlabeled)	C ₂ H ₅ P(O)(OH) ₂	1000 µg/mL in methanol	1.2 mL
	ERI-017	Isopropyl methylphosphonic acid (D ₇ , 98%)	C ₄ H ₄ D ₇ O ₃ P	1000 µg/mL in methanol	1.2 mL
NEW	ULM-9892-1.2	N-Methyl diethanolamine (unlabeled)	CH ₃ N(CH ₂ CH ₂ OH) ₂	1000 µg/mL in methanol	1.2 mL
	CDLM-6100-1.2	Methylphosphonic acid (¹³ C, 99%; methyl-D ₃ , 98%)	*CD ₃ H ₂ O ₃ P	100 µg/mL in methanol	1.2 mL
	DLM-6196-1.2	Methylphosphonic acid (methyl-D ₃ , 98%)	CD ₃ H ₂ O ₃ P	100 µg/mL in methanol	1.2 mL
NEW	ERM-038	Methylphosphonic acid (unlabeled)	CH ₃ O ₃ P	1000 µg/mL in methanol	1.2 mL
	CLM-6620-1.2	Methylphosphonic acid, mono-(1,2,2-trimethylpropyl) ester (trimethylpropyl- ¹³ C ₆ , 99%)	*C ₆ CH ₁₇ O ₃ P	100 µg/mL in methanol	1.2 mL
NEW	ULM-6619-1.2	Methylphosphonic acid, mono-(1,2,2-trimethylpropyl) ester (unlabeled)	CH ₃ P(O)(OH)OCH ₂ (CH ₃) ₃ C(CH ₃) ₃	1000 µg/mL in methanol	1.2 mL
NEW	CLM-6096-1.2	Methylphosphonic acid, monocyclohexyl ester (cyclohexyl- ¹³ C ₆ , 99%)	C* ₆ H ₁₅ O ₃ P	100 µg/mL in methanol	1.2 mL
NEW	ULM-6097-1.2	Methylphosphonic acid, monocyclohexyl ester (unlabeled)	C ₇ H ₁₅ O ₃ P	100 µg/mL in methanol	1.2 mL
NEW	ULM-6097-10X-1.2	CP 90%		1000 µg/mL in methanol	1.2 mL
NEW	ULM-6099-1.2	Methylphosphonic acid, monoethyl ester (unlabeled)	CH ₃ P(O)(OH)OCH ₂ CH ₃	1000 µg/mL in methanol	1.2 mL
NEW	ULM-6093-1.2	Methylphosphonic acid, monoisopropyl ester (unlabeled)	C ₄ H ₁₁ O ₃ P	1000 µg/mL in methanol	1.2 mL
NEW	ULM-9894-1.2	Pinacolyl alcohol (unlabeled)	(CH ₃) ₃ CCH(OH)CH ₃	1000 µg/mL in methanol	1.2 mL
NEW	ULM-9895-1.2	1-Propylphosphonic acid (unlabeled)	C ₃ H ₉ O ₃ P	1000 µg/mL in methanol	1.2 mL
NEW	ULM-9886-1.2	2-Propylphosphonic acid (unlabeled)	C ₃ H ₉ O ₃ P	1000 µg/mL in methanol	1.2 mL
	CLM-6106-1.2	Ricinine (ring- ¹³ C ₅ , 99%; cyano- ¹³ C, 99%)	C ₂ *C ₆ H ₈ N ₂ O ₂	100 µg/mL in acetonitrile	1.2 mL
NEW	ULM-9225-1.2	Ricinine (unlabeled)	C ₆ H ₈ N ₂ O ₂	100 µg/mL in acetonitrile	1.2 mL
	ERT-054	Thiodiglycol (D ₈ , 98%)	C ₄ H ₂ D ₈ O ₂ S	1000 µg/mL in methanol	1.2 mL

Chemical Weapon Metabolite Standards

Catalog No.	Compound	Formula	Concentration	Amount
ERT-053	Thiodiglycol (unlabeled)	C ₄ H ₁₀ O ₂ S	1000 µg/mL in methanol	1.2 mL
NEW ULM-9890-1.2	Thiodiglycol sulfone (unlabeled) ~70% WT in H ₂ O	O ₂ S(CH ₂ CH ₂ OH) ₂	1000 µg/mL in methanol	1.2 mL
ERT-054	Thiodiglycol (D ₈ , 98%)	C ₄ H ₂ D ₈ O ₂ S	1000 µg/mL in methanol	1.2 mL
ERT-053	Thiodiglycol (unlabeled)	C ₄ H ₁₀ O ₂ S	1000 µg/mL in methanol	1.2 mL
NEW ULM-9890-1.2	Thiodiglycol sulfone (unlabeled) ~70% WT in H ₂ O	O ₂ S(CH ₂ CH ₂ OH) ₂	1000 µg/mL in methanol	1.2 mL
NEW ULM-9889-1.2	Thiodiglycol sulfoxide (unlabeled)	C ₄ H ₁₀ O ₃ S	1000 µg/mL in methanol	1.2 mL
NEW ULM-9888-1.2	1,4-Thioxane (unlabeled)	C ₄ H ₈ OS	1000 µg/mL in methanol	1.2 mL
NEW ULM-9891-1.2	Triethanolamine (unlabeled)	(HOCH ₂ CH ₂) ₃ N	1000 µg/mL in methanol	1.2 mL

Chemical Weapon Metabolite Standard Mixtures

Catalog No.	Compound	Amount
NEW ES-5547	Dialkyl Phosphate and Phosphorothioate Cocktail (D, 98%)	1.2 mL in methanol
	Labeled	(ng/mL)
	<i>O,O</i> -Dimethyl phosphate, potassium salt (dimethyl-D ₆ , 98%)	10,000
	<i>O,O</i> -Diethyl phosphate, potassium salt (diethyl-D ₁₀ , 98%)	10,000
	<i>O,O</i> -Dimethyl thiophosphate, potassium salt (dimethyl-D ₆ , 98%)	10,000
	<i>O,O</i> -Diethyl thiophosphate, potassium salt (diethyl-D ₁₀ , 98%)	10,000
	<i>O,O</i> -Dimethyl dithiophosphate, potassium salt (dimethyl-D ₆ , 98%)	10,000
	<i>O,O</i> -Diethyl dithiophosphate, potassium salt (diethyl-D ₁₀ , 98%)	10,000
NEW ES-5548	Dialkyl Phosphate and Phosphorothioate Cocktail	1.2 mL in methanol
	Unlabeled	(ng/mL)
	<i>O,O</i> -Dimethyl phosphate, potassium salt	10,000
	<i>O,O</i> -Diethyl phosphate, potassium salt	10,000
	<i>O,O</i> -Dimethyl thiophosphate, potassium salt	10,000
	<i>O,O</i> -Diethyl thiophosphate, potassium salt	10,000
	<i>O,O</i> -Dimethyl dithiophosphate, potassium salt	10,000
	<i>O,O</i> -Diethyl dithiophosphate, potassium salt	10,000
NEW ES-5562	HD Metabolites Native Standards Mixture	1.2 mL in methanol
	Unlabeled	(µg/mL)
	1,4-Dithiane	100
	Thiodiglycol	100
	1,4-Thioxane	100
	Thiodiglycol sulfoxide	100
	Thiodiglycol sulfone	100

Chemical Weapon Metabolite Standard Mixtures

Catalog No.	Compound	Amount
NEW ES-5563	Amines and Alcohol Native Standards Mixture	1.2 mL in methanol
	Unlabeled	(µg/mL)
	Triethanolamine	100
	<i>N</i> -Methyldiethanolamine	100
	<i>N</i> -Ethyldiethanolamine	100
	Pinacolyl alcohol	100
NEW ES-5564	Phosphonic Acid Native Standards Mixture	1.2 mL in methanol
	Unlabeled	(µg/mL)
	Methylphosphonic acid	100
	Ethylphosphonic acid	100
	1-Propylphosphonic acid	100
	2-Propylphosphonic acid	100
NEW ES-5565	Phosphonic Acid Esters Native Standards Mixture	1.2 mL in methanol
	Unlabeled	(µg/mL)
	Dimethyl methylphosphonate	100
	Diethyl methylphosphonate	100
	Diisopropyl methylphosphonate	100
	Dipinacolyl methylphosphonate	100
NEW ES-5566	Phosphonic Acid Half-Esters Native Standards Mixture	1.2 mL in methanol
	Unlabeled	(µg/mL)
	Methylphosphonic acid, monoethyl ester	100
	Methylphosphonic acid, monoisopropyl ester	100
	Methylphosphonic acid, mono-(1,2,2-trimethylpropyl) ester	100
	Methylphosphonic acid, monocyclohexyl ester	100