

**List of Government and Authorized laboratories for analysis  
pesticide and dioxin residues**

No	Name of laboratory	Address	Analyzed parameters	Testing method
1	National Agro-Forestry- Fisheries Quality Assurance Department Branch 1*	51 Le Lai, Ngo Quyen District, Hai Phong City	Hexachlorobenzen, Lindane (gamma-HCH), Heptachlor, Chlorpyrifos, Aldrin, Trans-Chlordane, Cis-Chlordane, Dieldrin, Endrin	05.2/CL1/ST 03.54 (GC/MS) (AOAC 2007.01)
4,4-DDT				
Trichlorfon			05.2/CL1/ST 03.61 (GC/MS) (AOAC 2007.01)	
Chlorothanoni, Metalaxyl, Chlorpyrifos, Fipronil, Quinalphos, $\alpha$ -Endosulfan, Hexaconazole, Profenofos, $\beta$ -Endosulfan, Propiconazole, Carbosulfan, Cis/trans-Permethrin, Fenvalerate			05.2/CL1/ST 03.58 (GC/MS) (AOAC 2007.01)	
Cyfluthrin				
$\alpha, \beta$ - Cypermethrin				
Indoxacarb, Difenoconazole				
Dichloran, Chlorpyrifos Methyl, Malathion, Tetraconazole, Cyproconazole, Triazophos, Bifenthrin, Fenpropathrin, $\lambda$ -Cyhalothrin, Deltamethrin			05.2-CL1/ST 3.66 (GC-MS)	
Alicarb, Carbendazime, Thiabendazole, Fenbuconazole, Imidacloprid, Trichlorfon, Kreroxim-methyl	05.2-CL1/ST 3.72 (LC/MS/MS)			
2	National Agro-Forestry- Fisheries Quality Assurance Department Branch 2*	31 Ngu Hanh Son, Ngu Hanh Son district, Da Nang city	Acephate, Methamidophos, Trichlorfon, Carbofuran, Carbaryl, Acetamiprid, Clothianidin, Imidacloprid, Thiamethoxam	3.5/CL2.PP.3.25 (LC-MS/MS)
Aldrin, Cis-Chlordane, Trans-Chlordane, 2,4'-DDD, 4,4'-DDD, 2,4'-DDE, 4,4'-DDE, 2,4'-DDT, 4,4'-DDT, Alpha-Endosulfan, Beta-Endosulfan, Alpha-HCH, Beta-HCH, Gamma-HCH (Lindan), Heptachlor, Trans-Heptachlor epoxide, Hexachlorobenzene, Methoxychlor, Tecnazene			3.5/CL2.PP.3.24 (GC-MS/MS)	
Dieldrin, Endrin, Cis-Heptachlor epoxide, Quintozene				
Aldicarb sunfoxide, Propoxur, Omethoate, Thiachloprid, Pirimicarb, Aldicarb	3.5/CL2.PP.3.25 (LC-MS/MS)			

			Chlorpyrifos, Dichlorvos, Malathion, Parathion - ethyl, Parathion - methyl, Pirimiphos - methyl, Profenofos, Phosmet, Fenchlorphos, Fenvalerate, Permethrin, Deltamethrin, Lamda-Cyhalothrin, Propiconazole	3.5/CL2.PP.3.33 (LC-MS/MS)
			Cypermethrin, Bifenthrin	
			HCB, Aldrin, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC, alpha-Chlordane, gamma-Chlordane, 4,4'-DDE, 4,4'-DDT, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Endrin ketone, Heptachlor, Heptachlor epoxide	NAF053/13 (AOAC 2007.01)
			Chlorothanil; Cypermethrin; Fipronil; 4,4-DDT	05.2 - CL4/ST3.100 (AOAC 2007.01)
			Abamectin, Cyromazine, Thiamethoxam	
			Carbendazim/Benomyl	05.2 - CL4/ST3.99 (Ref. AOAC 2007.01)
			Carboxin	
			Cymoxanil	
			Dinotefuran	
			Imidaclopid	
			Indoxacarb	
			Metalaxyl	
3	National Agro-Forestry- Fisheries Quality Assurance Department Branch 4*	Head office:30 Ham Nghi, District No1, Ho Chi Minh City (chemical laboratory: 91 Hai Thuong Lan Ong, District No 5, Ho Chi Minh City)	Bifenthrin, Cyhalothrin, Fenpropathrin, Permethrin, Cypermethrin, Etofenprox, Deltamethrin, Dichloran, Pencycuron, Trifluralin, Iprobenfos, Metalaxyl, Cyprodinil, Nitrothal-Isopropyl, Pendimethalin, Tetraconazole, Paclobutrazol, Triadimenol, Cyproconazole, Flusilazole, Isoprothiolane, Kresoxim-Methyl, Propiconazole, Piperonyl Butoxide, Bitertanol, Indoxacarb, Azoxystrobin, Difenoconazole, Thiabendazole, Tebufenozone, Methoxyfenozone, Imazalil, Hexaflumuron_nega, Hexaconazole, Flutriafol, Flufenacet, Flubendiamide_nega, Flonicamid, Fenpyroximate, Fenbuconazole, Famoxadone, Ethiprole, Carpropamid, Boscalid, Abamectin_B1a,	NAF 052/13 (Syoku-An No.0124001, January 24, 2005 - Analytical methods for Residual Compositional substances of Agricultural chemical, Feed

		Chlorpyrifos-Methyl, Fenitrothion, Malathion, <b>Profenofos</b> , Triazophos, Edifenphos, Omethoate, Phoxim, Monocrotophos, Methamidophos, <b>Acephate</b> , Endosulfan, Thiamethoxam, Thiacloprid, Imidacloprid, Lufenuron_nega, Flufenoxuron, Isoprocarb, Propoxur, Iprovalicarb, Pirimicarb, Dimethoate, Carbaryl, Aldicarb sulfoxide, Aldicarb	additives, and Veterinary Drugs in Food)
		Aldrin, Dieldrin, Endrin, Heptachlo, Hexachlorobenzen, Lindan	NAFI6 – H9.1 (AOAC 983.21-2007)
		Cis - Chlodan, Trans - Chlodan	
		DDT	
		2,4-DDE, Aldrin, Alpha Endosulfan, Beta Endosulfan, Dieldrin, Endrin, <b>Fipronil</b> , Heptachlor, Hexachlorobenzene (HCB)	NAFI6/H – 9.2 (AOAC 2007.01)
		Chlorothalonil	
		Permethrin (cis), Permethrin (trans), Cyfluthrin, Cypermethrin (alpha+beta), Fenvalerate	
		o,p – DDT và p,p' - DDT, Fenvalerate	
		2,4-D	NAFI6/H – 8.7 (AOAC 2007.01)
		Carbendazim	
		<b>Acephate</b> , Imidacloprid, Methamidophos	NAFI6/H – 9.2 (AOAC 2007.01)
		Lindan (Gamma HCH), Pendimethalin, Cis - Chlodan, Trans - Chlodan	
		Propiconazole	
		Trans Permethrin, Trifluralin	NAFI6/H – 9.2 (AOAC 2007.01)
		Chlorpyrifos, Chlorpyrifos - methyl, Malathion, Trichlofon, Dichlovos	
		Diazinon	
		Ethoprophos	
		Metaxyl, <b>Profenofos</b>	NAFI6/H - 9.6 (AOAC 2007.01)
		Deltamethrin (pyrethoide groups)	
		Ethephon and some derivative	NAFI6/H – 8.21 (AOAC 2007.01)
		Dithiocarbamate	NAFI6/H - 9.9 (Acta Chim. Slov.2006.53, 100 104)
		Parathion, Parathion methyl, Parathion ethyl	NAFI6/H -9.8 (AOAC 2007.01)
		<b>Dioxin</b>	
		<i>Dibenzofurans (PCDFs')</i>	
		2,3,7,8-TCDF	
		1,2,3,7,8-PeCDF	

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4	National Agro-Forestry- Fisheries Quality Assurance Department Branch 6*	Mang Thang Tam, Bui Huu Nghia, Binh Thuy District, Can Tho city	2,3,4,7,8-PeCDF	EPA 1613 (HRGCMS)	
			1,2,3,4,7,8-HxCDF		
			1,2,3,6,7,8-HxCDF		
			1,2,3,7,8,9-HxCDF		
			2,3,4,6,7,8-HxCDF		
			1,2,3,4,6,7,8-HpCDF		
			1,2,3,4,7,8,9-HpCDF		
			OCDF		
			<i>Dibenzo-p-dioxins ('PCDDs')</i>		
			2,3,7,8-TCDD		
			1,2,3,7,8-PeCDD		
			1,2,3,4,7,8-HxCDD		
			1,2,3,6,7,8-HxCDD		
			1,2,3,7,8,9-HxCDD		
			1,2,3,4,6,7,8-HpCDD		
			OCDD		
			Dioxin-like PCBs (PCBs - Polychlorinated biphenyl):		EPA 1668B (HRGCMS)
			<i>Non-ortho PCBs</i>		
			PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)		
			PCB 81 (3,4,4',5'-Tetrachlorobiphenyl)		
			PCB 126 (3,3',4,4',5'-Pentachlorobiphenyl)		
			PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)		
			<i>Mono-ortho PCBs</i>		
			PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)		
			PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)		
			PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)		
			PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)		
			PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)		
			PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)		
			PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)		
			PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)		

5	Northern Pesticide Control and Testing Center**	149 Ho Dac Di Street - Dong Da District - Ha Noi City	Alachlor, Alfa Endosulfan, Amisulbrom, Azoxytrobin, Beta Endosulfan, Bifenthrin, Brumuconazole, Chlorfenapyr, chlorothalonil, Cyfluthrin, Cypermethrin, Deltamethrin, Dicofol, Difenconazole, Diniconazole, Endosulfan-Sulfate, Fenpropathrin, Fenvalerate, Fipronil, Heptachlor-Eproxide, Hexaconazole, Imibenconazole, Iprodion, Lambda cyhalothrin, Lindan, Myclobutanil, Permethrin, Pretilachlor, Prochloraz, Propiconazole	QueChers-EN15662
			Acephate, Anilofos, Chlorpyrifos-E, Chlorpyrifos-M, Diazinon, Dimethoate, Ethion, Ethoprosfos, Fenitrothion, Fenitrothion, Iprofenfos, Malathion, Methamidophos, Methidathion, Methyl parathion, Monocrotophos, Phosalon, Profenophos, Quinalphos, Triazophos, Trichlorfon	
			Acetamiprid, Buprofezin, Carbendazim, Diafenthiuron, Dimethomorp, Etofenprox, Fenpyroximate, Imidacloprid, Metalaxyl, Pyraclostrobin, Tebuconazole, Tebufenozide, Thiamethoxam, Thiophanate-M	
			fenpropathrin, cyhalothrin lambda, permethrin, cypermethrin, fenvalerate, bifenthrin, deltamethrin	AOAC 998.01
			Cartap, Nereistoxin (rau quá)	PTN 40-DLF*
			Cartap, Nereistoxin (chè)	PTN 41-DLF*
			<i>Carbamate:</i> benfuracarb, carbaryl carbosulfan, fenobucarb, carbofuran, metalaxyl, methomyl	PTN 09-DLF*
			Carbendazim, thiophanate methyl, imidacloprid, metalaxyl	PTN 07-DLF*
			Cypermethrin, Fenvalerate (tea)	PTN 39-DLF*
			Lindan, chlorothalonil, fipronil, endosulfan ( $\alpha$ , $\beta$ ), hexaconazole, Difenconazole, fenpropathrin, cypermethrin, buprofezin (rice)	TCVN 8049:2009
			Acetamiprid (Vegetables, fruit)	PTN 03-DLF
			Carbendazim (fruit)	TC11/2011-DL
			Fenpyroximate (Vegetables, fruit, tea)	PTN 42-DLF
			Thiamethoxam (Vegetables, fruit)	PTN 01-DLF
			Chlorothalonil (Vegetables, fruit)	TCVN 8318:2010
			2,4 D; 2,4,5 T (Vegetables, fruit, pepper)	TCVN 8322:2010
			Chlorpyrifos (tea)	TCVN 8321:2010
Cymoxanil (fruit)	TCVN 8324:2010			
Flusilazole (fruit)	TCVN 8323:2010			

			<p><i>Organochlorine pesticides in soil:</i> HCB, HCH (<math>\alpha, \beta, \delta, \gamma</math>), op-DDT, pp-DDT, op-DDE, pp-DDE, op-DDD, pp-DDD, aldrin, erin, dieldrin, endosulfan, endosulfansulphate, heptachlor, heptachlor epoxid</p>	TCVN 8061:2009
			<p><i>Organochlorine pesticides in water:</i> HCB, HCH (<math>\alpha, \beta, \delta, \gamma</math>), op DDT, pp DDT, op DDE, pp DDE, op DDD, pp DDD, aldrin, endrin, dieldrin, endosulfan(<math>\alpha+\beta</math>), endosulfansulphate, heptachlor, heptachlor epoxid (water)</p>	TCVN 7876:2008
6	Center of Analytical Services and Experimentation of Hochiminhcity ***	02 Nguyen Van Thu, District No 1, Ho Chi Minh City	Dioxin - Furan, PCDDs/PCDFs	HRGC/HRMS m42cn050

**Note:**

- bold active substances notified by Taiwan
- (\*) Government laboratories (designated by NAFIQAD)
- (\*\*) Government laboratories (designated by Plant Protection Department)
- (\*\*\*) Authorized laboratory (Decision No. 3074/QĐ-BNN-KHCN of 11 December 2012 of MARD)