

Laboratory	All India Network Project on Pesticide Residue Laboratory, Bidhan Chandra Krishi Viswavidyalaya, Directorate of Research, P.O.Kalyani, Nadia, West Bengal		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.03.2014
Certificate Number	T-2079	Valid Until	10.03.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	WATER	Pesticide residue Analysis		
1.	Ground Water & Packaged Drinking Water	Organochlorine group	BPRL/AM-07	
		HCH-I	[Issue No.02	≥0.0001 mg/L
		HCH-II	Date of issue: 01.09.2011	≥0.0001 mg/L
		Lindane	Revision No. 02	≥0.0001 mg/L
		HCH-IV	Date of Revision: 01.06.2013]	≥0.0001 mg/L
		Endosulfan-I	(Ref.: AOAC Test Method 990.06)	≥0.0001 mg/L
		Endosulfan-II	[GC-ECD/	≥0.0001 mg/L
		Endosulfan sulphate	GC-MS	≥0.0001 mg/L
		pp'-DDE		≥0.0001 mg/L
		pp'-DDD		≥0.0001 mg/L
		pp'-DDT		≥0.0001 mg/L
		op'-DDD		≥0.0001 mg/L
		Aldrin		≥0.0001 mg/L
		4-Bromo, 2-Chloro-phenol		≥0.0001 mg/L
		Heptachlor		≥0.0001 mg/L
		Organophosphorous group		
		Phorate		≥0.0001 mg/L
		Profenophos		≥0.0001 mg/L
		Parathion-methyl		≥0.0001 mg/L
		Malathion		≥0.0001 mg/L
		Chlorpyrifos		≥0.0001 mg/L
		Quinalphos		≥0.0001 mg/L
		Ethion		≥0.0001 mg/L
		Phosphamidon		≥0.0001 mg/L
		Synthetic pyrethroids		
		Fenpropathrin		≥0.0001 mg/L
		Beta-cyfluthrin		≥0.0001 mg/L
		Deltamethrin		≥0.0001 mg/L
		Bifenthrin		≥0.0001 mg/L
		Lamda-cyhalothrin		≥0.0001 mg/L
		Alpha-cypermethrin		≥0.0001 mg/L
		Fenvalerate		≥0.0001 mg/L

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Ground Water & Packaged Drinking Water	Herbicides Trifluralin Pendimethalin Butachlor Atrazine Alachlor Dimethachlor Miscellaneous Chlorthalonil Spiromesifen	BPRL/AM-07 [Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013] (Ref.: AOAC Test Method 990.06) [GC-ECD/ GC-MS	≥0.0001 mg/L ≥0.0001 mg/L ≥0.0001 mg/L ≥0.0001 mg/L ≥0.0001 mg/L ≥0.0001 mg/L ≥0.0001 mg/L ≥0.0001 mg/L ≥0.0001 mg/L

II. FOOD & AGRICULTURAL PRODUCTS

1. Fish	Organochorine group HCH-I HCH-II Lindane HCH-IV Endosulfan-I Endosulfan-II Endosulfan sulphate pp-DDE pp-DDD pp-DDT op-DDD Aldrin 4-Bromo,2-Chloro-phenol Organophosphorous group Phorate Profenophos Parathion-methyl Malathion Chlorpyriphos Quinalphos	BPRL/AM-05 [Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013] (Ref.: AOAC official method 2007.01) [GC-ECD/ GC-MS]	≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.01 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Fish	Ethion	BPRL/AM-05	≥0.05 mg/kg
		Phosphamidon	[Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.05 mg/kg
		Synthetic pyrethroids	(Ref.: AOAC official method 2007.01)	≥0.1 mg/kg
		Fenpropathrin	[GC-ECD/	≥0.1 mg/kg
		Beta-cyfluthrin	GC-MS	≥0.1 mg/kg
		Deltamethrin		≥0.1 mg/kg
		Bifenthrin		≥0.1 mg/kg
		Lamda-cyhalothrin		≥0.1 mg/kg
		Alpha-cypermethrin		≥0.1 mg/kg
		Fenvalerate		≥0.1 mg/kg
		Herbicides		
		Trifluralin		≥0.01 mg/kg
		Pendimethalin		≥0.01 mg/kg
		Alachlor		≥0.01 mg/kg
		Butachlor		≥0.01 mg/kg
		Atrazine		≥0.01 mg/kg
		Miscellaneous		
		Chlorthalonil		≥0.01 mg/kg
		Spiromesifen		≥0.01 mg/kg
2.	Fruits [Apple, Banana, Grapes, Mango, Guava, Orange]	Organochlorine group	BPRL/AM-03	≥0.01-1mg/kg, >1mg/kg
		HCH-I	[Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.01-1mg/kg, >1mg/kg
		HCH-II	(Ref.: AOAC Test Method 2007.01) [GC-ECD/ GC-MS	≥0.01-1mg/kg, >1mg/kg

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fruits [Apple, Banana,Grapes Mango,Guava, Orange]	Lindane	PRL/AM-03 [Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.01-1mg/kg, >1mg/kg
		HCH-IV	(Ref.: AOAC Test Method 2007.01)	≥0.01-1mg/kg, >1mg/kg
		Endosulfan-I	[GC-ECD/ GC-MS	≥0.01-1mg/kg, >1mg/kg
		Endosulfan-II		≥0.01-1mg/kg, >1mg/kg
		Endosulfan sulphate		≥0.01-1mg/kg, >1mg/kg
		pp'-DDT		≥0.01-1mg/kg, >1mg/kg
		op'-DDD		≥0.01-1mg/kg, >1mg/kg
		op'-DDT		≥0.01-1mg/kg, >1mg/kg
		Aldrin		≥0.01-1mg/kg, >1mg/kg
		Organophosphorous group Phorate		≥0.05 mg/kg
		4-Bromo,2-Chloro-phenol		≥0.05 mg/kg

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	Fruits [Apple, Banana, Grapes Mango, Guava, Orange]	Profenophos	BPRL/AM-03	≥0.05 mg/kg
		Parathion-methyl	[Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.05 mg/kg
		Malathion		≥0.05 mg/kg
		Chlorpyrifos	(Ref.: AOAC Test Method 2007.01) [GC-ECD/ GC-MS]	≥0.05 mg/kg
		Quinalphos		≥0.05 mg/kg
		Ethion		≥0.05 mg/kg
		Phosphamidon		
		Synthetic pyrethroids		
		Fenpropathrin		≥0.1 mg/kg
		Beta-cyfluthrin		≥0.1 mg/kg
		Deltamethrin		≥0.1 mg/kg
		Bifenthrin		≥0.1 mg/kg
		Lamda-cyhalothrin		≥0.1 mg/kg
		Alpha-cypermethrin		≥0.1 mg/kg
		Fenvalerate		≥0.1 mg/kg

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fruits [Apple, Banana, Grapes, Mango, Guava, Orange]	Herbicides	BPRL/AM-03 [Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.01 mg/kg
		Trifluralin		≥0.01 mg/kg
		Pendimethalin		≥0.01 mg/kg
		Butachlor	(Ref.: AOAC Test Method 2007.01) [GC-ECD/	≥0.01 mg/kg
		Atrazine	GC-MS	≥0.01 mg/kg
		Alachlor		≥0.01 mg/kg
		Miscellaneous	BPRL/AM-03 [Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.01 mg/kg
		Chlorthalonil		≥0.1 mg/kg
		Spiromesifen		≥0.1 mg/kg
		Neonicotinoids	BPRL/AM-03 (Ref.: AOAC official method 2007.01) LCMS/MS	≥0.1 mg/kg
3.	Vegetables [Cabbage, Cauliflower, Brinjal, Okra, Tomato, Capsicum, Cucumber, Pea, Bittergourd, Coriander Leaf]	Organochlorine gr.	BPRL/AM-02 [Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.01 mg/kg
		HCH-I		≥0.01 mg/kg
		HCH-II		≥0.01 mg/kg
		Lindane		≥0.01 mg/kg
		HCH-IV		≥0.01 mg/kg
		Endosulfan-I	(Ref.: AOAC official method 2007.01)	≥0.01 mg/kg
		Endosulfan-II	[GC-ECD/GC-MS]	≥0.01 mg/kg
		Endosulfan sulphate		≥0.01 mg/kg
		pp-DDE		≥0.01 mg/kg
		pp-DDD		≥0.01 mg/kg
		pp-DDT		≥0.01 mg/kg
		op-DDD		≥0.01 mg/kg

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	Vegetables [Cabbage,Cauliflow, er,Brinjal,Okra, Tomato,Capsicum, Cucumber,Pea, Bittergourd, Coriander Leaf]	op-DDT		≥0.01 mg/kg
		Aldrin	BPRL/AM-02	≥0.01 mg/kg
		Heptachlor	[Issue No.02 Date of issue:	≥0.01 mg/kg
		4-Br-2Cl-phenol	01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.01 mg/kg
		Organophosphorous gr		
		Phorate	(Ref.: AOAC official method	≥0.05 mg/kg
		Profenophos	2007.01)	≥0.05 mg/kg
		Parathion-methyl	[GC-ECD/GC-MS]	≥0.05 mg/kg
		Malathion		≥0.05 mg/kg
		Chlorpyriphos		≥0.05 mg/kg
		Quinalphos		≥0.05 mg/kg
		Ethion		≥0.05 mg/kg
		Phosphamidon		≥0.05 mg/kg
		Dimethoate		≥0.05 mg/kg
		Synthetic pyrethroids		
		Fenpropathrin		≥0.1 mg/kg
		Beta-cyfluthrin		≥0.1 mg/kg
		Deltamethrin		≥0.1 mg/kg
		Bifenthrin		≥0.1 mg/kg
		Lamda-cyhalothrin		≥0.1 mg/kg
		Alpha-cypermethrin		≥0.1 mg/kg
		Fenvalerate		≥0.1 mg/kg
		Herbicides		
		Trifluralin		≥0.05 mg/kg
		Pendimethalin		≥0.05 mg/kg
		Alachlor		≥0.05 mg/kg

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	Vegetables [Cabbage,Cauliflow, er,Brinjal,Okra, Tomato,Capsicum, Cucumber,Pea, Bittergourd, Coriander Leaf]	Miscellaneous	BPRL/AM-02	
		Spiromesifen	[Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.1 mg/kg
			(Ref.: AOAC official method 2007.01)	
			[GC-ECD/GC-MS]	
		Carbamates&Neonicotinoids		
		Carbaryl		
		Carbofuran	BPRL/AM-02	≥0.1 mg/kg
		Imidacloprid	(Ref.: AOAC official method 2007.01)	≥0.1 mg/kg
		Thiacloprid	LCMS/MS	≥0.1 mg/kg
		Cereals [Rice, Wheat]	Organochlorine gr.	BPRL/AM-04
	[Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]		≥0.01 mg/kg	
HCH-I			≥0.01 mg/kg	
HCH-II			≥0.01 mg/kg	
Lindane			≥0.01 mg/kg	
HCH-IV	(Ref.: AOAC Test Method 2007.01) [GC-ECD/		≥0.01 mg/kg	
Endosulfan-I	GC-MS		≥0.01 mg/kg	
Endosulfan-II			≥0.01 mg/kg	
Endosulfan sulphate			≥0.01 mg/kg	
pp-DDE			≥0.01 mg/kg	
op-DDD			≥0.01 mg/kg	
pp-DDT			≥0.01 mg/kg	
op-DDT			≥0.01 mg/kg	
Aldrin			≥0.01 mg/kg	

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	Cereals [Rice, Wheat]	Organophosphorous group 4-Bromo2-Chloro phenol Phorate Profenophos Parathion-methyl Malathion Chlorpyriphos Quinalphos Ethion Phosphamidon Dimethoate	BPRL/AM-04 [Issue No.02 Date of issue: 01.09.2011 Revision No. 02 Date of Revision: 01.06.2013] (Ref.: AOAC Test Method 2007.01) [GC-ECD/ GC-MS	≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg
		Synthetic pyrethroids Fenpropathrin Beta-cyfluthrin Deltamethrin Bifenthrin Lamda-cyhalothrin Alpha-cypermethrin Fenvalerate		≥0.1 mg/kg ≥0.1 mg/kg ≥0.1 mg/kg ≥0.1 mg/kg ≥0.1 mg/kg ≥0.1 mg/kg ≥0.1 mg/kg
		Herbicides Trifluralin Pendimethalin Butachlor Atrazine Alachlor		≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg ≥0.05 mg/kg
		Miscellaneous Chlorthalonil Spiromesifen		≥0.01 mg/kg ≥0.1 mg/kg

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5.	Tea	Organochlorine gr.		
		Endosulfan-I	BPRL/AM-06	≥0.1 mg/kg
		Endosulfan-II	[Issue No.02 Date of issue:	≥0.1 mg/kg
		Endosulfan sulphate	01.09.2011 Revision No. 02 Date of Revision: 01.06.2013]	≥0.1 mg/kg
		Organophosphorous gr.		
		Chlorpyrifos	AOAC official method 2007.01)	≥0.1 mg/kg
		Quinalphos	[GC-ECD/ GC-MS]	≥0.1 mg/kg
		Ethion		≥0.1 mg/kg
		Synthetic pyrethroids		
		Fenpropathrin		≥0.1 mg/kg

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