Laboratory Pesticide Toxicology Laboratory, Department of Agricultural

Entomology, Tamil Nadu Agricultural University, Coimbatore, Tamil

Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing Issue Date 21.12.2015

Certificate Number T-2103 Valid Until 20.12.2017

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S. No. Product / Specific Test Performed Test Method Specification Range of Testing / against which tests are Limits of Detection performed

## I. FOOD AND AGRICULTURAL PRODUCTS

1. Vegetables (Brinjal, Cabbage, Cauliflower, Okra and Tomato) **Organochlorines:** 

α-HCH Validated in-house test Method, 0.01 mg/kg to 1 mg/kg

γ-HCH PTL-TM-01. Issue. 03, δ-HCH Issue dated. 29.10.2013

Endosulfan-α Endosulfan-β Endosulfan sulfate

pp'-DDE pp'-DDD pp'-DDT

**Organophosphates:** 

Chlorpyrifos Validated in-house test Method, 0.05 mg/kg to 1 mg/kg

Dimethoate PTL-TM-02. Issue. 03, Ethion Issue dated. 29.10.2013 Malathion

Phorate Quinalphos Profenophos Triazofos

λ-Cyhalothrin Fluvalinate

Parathion-methyl

**Synthetic pyrethroids:** 

α-Cypermethrin Validated in-house test Method, 0.1 mg/kg to 1 mg/kg

Bifenthrin PTL-TM-01. Issue. 03,
Deltamethrin Issue dated. 29.10.2013
Fenvalerate

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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.	Fruits (Apple, Banana, Grapes, Orange and Pomegranate)	Organochlorines: α-HCH γ-HCH δ-HCH Endosulfan-α Endosulfan-β Endosulfan sulfate pp'-DDE pp'-DDD pp'-DDT	Validated in-house test Method, PTL-TM-01. Issue. 03, Issue dated. 29.10.2013	0.01 mg/kg to 1 mg/kg
		Organophosphates: Chlorpyrifos Dimethoate Ethion Malathion Parathion-methyl Phorate Quinalphos Profenophos Triazofos	Validated in-house test Method, PTL-TM-02. Issue. 03, Issue dated. 29.10.2013	0.05 mg/kg to 1 mg/kg
		Synthetic pyrethroids: α- Cypermethrin Bifenthrin Deltamethrin Fenvalerate λ- Cyhalothrin Fluvalinate	Validated in-house test Method, PTL-TM-01. Issue. 03, Issue dated. 29.10.2013	0.1 mg/kg to 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
3.	Fish (Marine Fish)	Organochlorines: α-HCH γ-HCH δ-HCH Endosulfan-α Endosulfan-β Endosulfan sulfate pp'-DDE pp'-DDD pp'-DDT	Validated in-house test Method, PTL-TM-01. Issue. 03, Issue dated. 29.10.2013	0.01 mg/kg to 1 mg/kg
4.	Spices (Cardamom)	Organochlorines: α-HCH γ-HCH δ HCH Endosulfan-α Endosulfan-β Endosulfan sulfate pp'-DDE pp'-DDT	Validated in-house test Method, PTL-TM-01. Issue. 03, Issue dated. 29.10.2013	0.1 mg/kg to 1 mg/kg
		Organophosphates: Chlorpyrifos Ethion Malathion Parathion-methyl Quinalphos Profenphos Triazophos	Validated in-house test Method, PTL-TM-02. Issue. 03, Issue dated. 29.10.2013	0.1 mg/kg to 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
	Spices	Synthetic pyrethroids:		
	(Cardamom)	Cypermethrin Deltamethrin Fenvalerate	Validated in-house test Method, PTL-TM-01. Issue. 03, Issue dated. 29.10.2013	0.1 mg/kg to 1 mg/kg
5.	Black Tea	Organochlorines: Endosulfan-α Endosulfan-β Endosulfan sulfate	Validated in-house test Method, PTL-TM-01. Issue. 03, Issue dated. 29.10.2013	0.1 mg/kg to 1 mg/kg
		Organophosphates: Chlorpyrifos Ethion Quinalphos	Validated in-house test Method, PTL-TM-02. Issue. 03, Issue dated. 29.10.2013	0.1 mg/kg to 1 mg/kg