

Laboratory	Pesticide Residue Research and Analytical Laboratory, AINP on Pesticide Residues, College of Agriculture, Kerala Agricultural University, Vellayani P.O., Thiruvananthapuram, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	1 of 13

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			
1	Surface water and Ground Water	Pesticide residue analysis <u>Organochlorine Group</u> 1. α -HCH 2. beta – HCH 3. γ -HCH/ Lindane 4. δ -HCH 5. Endosulfan-I 6. Endosulfan-II 7. Endosulfan sulfate 8. p,p'-DDE 9. p,p'-DDD	PRRAL/MOA-01 Issue No:2 date:16/01/2012 (Ref:- AOAC 18 th Edition 2007: 991.07 and 990.06)	0.1–5 μgL^{-1}
		<u>Organophosphorous Group</u> 10. Phorate 11. Chlorpyrifos 12. Malathion 13. Parathion methyl 14. Quinalphos 15. Profenophos 16. Ethion	PRRAL/MOA-01 Issue No:2 date:16/01/2012 (Ref:- AOAC 18 th Edition 2007: 991.07 and 990.06)	0.1–5 μgL^{-1}
		<u>Synthetic Pyrethroids</u> 17. Fenvalerate 18. λ -Cyhalothrin 19. Cypermethrin 20. β -Cyfluthrin 21. Fenpropathrin	PRRAL/MOA-01 Issue No:2 date:16/01/2012 (Ref:- AOAC 18 th Edition 2007: 991.07 and 990.06)	0.1–5 μgL^{-1}

Laboratory	Pesticide Residue Research and Analytical Laboratory, AINP on Pesticide Residues, College of Agriculture, Kerala Agricultural University, Vellayani P.O., Thiruvananthapuram, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	2 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II. FOOD & AGRICULTURAL PRODUCTS				
1.	Fruits (High moisture i.e.,>70%, low fat i.e.,<2%)	Pesticide residue analysis <u>Organochlorine Group</u> 1. α -HCH 2. β -HCH 3. γ -HCH/ Lindane 4. δ -HCH 5. Endosulfan-I 6. Endosulfan-II 7. Endosulfan sulfate 8. p,p'-DDE 9. p,p'-DDD	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.01– 0.5 mg kg ⁻¹
		<u>Organophosphorous Group</u> 10. Phorate 11. Dimethoate 12. Chlorpyrifos 13. Malathion 14. Parathion -methyl 15. Quinalphos 16. Profenophos 17. Ethion	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹
		<u>Synthetic Pyrethroids and Herbicides</u> 18. Fenvalerate 19. λ -Cyhalothrin 20. Cypermethrin 21. β -Cyfluthrin 22. Fenpropathrin 23. Bifenthrin 24. Pendimethalin 25. Fluchloralin	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	3 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fruits (High moisture i.e., >70%, low fat i.e., <2%)	<u>Carbamates and new molecules</u> 26. Spirotetramat 27. Chlorantraniliprole 28. Emamectin Benzoate 15. Quinalphos 16. Profenophos 17. Ethion	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹
		<u>Synthetic Pyrethroids and Herbicides</u> 18. Fenvalerate 19. λ-Cyhalothrin 20. Cypermethrin 21. β-Cyfluthrin 22. Fenpropathrin 23. Bifenthrin 24. Pendimethalin 25. Fluchloralin	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹
		<u>Carbamates and new molecules</u> 26. Spirotetramat 27. Chlorantraniliprole 28. Emamectin Benzoate 29. Fipronil 30. Fenpyroximate 31. Spinosad 32. Indoxacarb 33. Imidacloprid 34. Thiamethoxam 35. Carbaryl 36. Carbofuran 37. Carbofuran-3- hydroxy 38. Thiacloprid	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	4 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fruits (High moisture i.e.,>70%, low fat i.e.,<2%)	39. Methomyl 40. Carbofuran 3- keto 41. Acetamiprid 42. Trifloxystrobin 43. Tebuconazole 44. Flubendiamide 45. Hexaconazole 46. Fluzilazole 47. Tebufenpyrad 48. Carbosulfan 49. Ethiprole	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹
2.	Vegetables (High moisture i.e.,>70%, low fat i.e.,<2%)	Pesticide residue analysis <u>Organochlorine Group</u> 1. α-HCH 2. β-HCH 3. γ-HCH/ Lindane 4. δ-HCH 5. Endosulfan-I 6. Endosulfan-II 7. Endosulfan sulfate 8. p,p'-DDE 9. p,p'-DDD <u>Organophosphorous Group</u> 10. Phorate 11. Dimethoate 12. Chlorpyrifos 13. Malathion 14. Parathion -methyl 15. Quinalphos 16. Profenophos 17. Ethion	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.01– 0.5 mg kg ⁻¹
			PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	5 of 13

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	Vegetables (High moisture i.e.,>70%, low fat i.e.,<2%)	<u>Synthetic Pyrethroids and Herbicides</u> 18. Fenvalerate 19. λ-Cyhalothrin 20. Cypermethrin 21. β-Cyfluthrin 22. Fenpropathrin 23. Bifenthrin 24. Pendimethalin 25. Fluchloralin	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹
		<u>Carbamates and new molecules</u> 26. Spirotetramat 27. Chlorantraniliprole 28. Emamectin Benzoate 29. Fipronil 30. Fenpyroximate 31. Spinosad 32. Indoxacarb 33. Imidacloprid 34. Thiamethoxam 35. Carbaryl 36. Carbofuran-3- hydroxy 37. Thiacloprid 38. Methomyl 39. Carbofuran 3- keto 40. Acetamiprid 41. Trifloxystrobin 42. Tebuconazole 43. Flubendiamide	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	6 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Vegetables (High moisture i.e.,>70%, low fat i.e.,<2%)	44. Hexaconazole 45. Fluzilazole 46. Tebufenpyrad 47. Carbosulfan 48. Ethiprole	PRRAL/MOA-02 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method) PRRAL/MOA-02	0.05-0.5 mg kg ⁻¹
3.	Cereals and Pulses (Fat <2%)	<u>Organochlorine Group</u> 1. α-HCH 2. β-HCH 3. γ-HCH/ Lindane 4. δ-HCH 5. Endosulfan-I 6. Endosulfan-II 7. Endosulfan sulfate 8. p,p'-DDE 9. p,p'-DDD	PRRAL/MOA-03 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.01-0.5 mg kg ⁻¹
		<u>Organophosphorous Group</u> 10. Phorate 11. Dimethoate 12. Chlorpyrifos 13. Malathion 14. Parathion -methyl 15. Quinalphos 16. Profenophos 17. Ethion	PRRAL/MOA-03 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹

Laboratory	Pesticide Residue Research and Analytical Laboratory, AINP on Pesticide Residues, College of Agriculture, Kerala Agricultural University, Vellayani P.O., Thiruvananthapuram, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	7 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cereals and Pulses (Fat <2%)	<u>Synthetic Pyrethroids and Herbicides</u>		
		18. Fenvalerate	PRRAL/MOA-03	0.05-0.5 mg kg ⁻¹
		19. λ-Cyhalothrin	Issue No:2 date:16/01/2013	
		20. Cypermethrin	(Ref:- AOAC 18thEdition 2007:	
		21. β-Cyfluthrin	2007.17 and EU reference	
		22. Fenpropathrin	laboratory multi residue method)	
		23. Bifenthrin		
		24. Pendimethalin		
		<u>Carbamates and new molecules</u>		
		25. Spirotetramat	PRRAL/MOA-03	0.05-0.5 mg Kg ⁻¹
		26. Chlorantraniliprole	Issue No:2 date:16/01/2013	
		27. Emamectin Benzoate	(Ref:- AOAC 18thEdition 2007:	
		28. Fipronil	2007.17 and EU reference	
		29. Fenpyroximate	laboratory multi residue method)	
		30. Spinosad		
		31. Indoxacarb		
		32. Imidacloprid		
		33. Thiamethoxam		
		34. Carbaryl		
		35. Carbofuran		
		36. Carbofuran-3-hydroxy		
		37. Thiacloprid		
		38. Methomyl		
		39. Carbofuran 3- keto		
		40. Acetamiprid		
		41. Trifloxystrobin		
		42. Tebuconazole		
		43. Flubendiamide		
		44. Hexaconazole		
		45. Fluzilazole		
		46. Tebufenpyrad		

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	8 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	Milk	Pesticide residue analysis <u>Organochlorine Group</u> 1. α -HCH 2. β -HCH 3. γ -HCH/ Lindane 4. δ -HCH 5. Endosulfan-I 6. Endosulfan-II 7. Endosulfan sulfate 8. p,p'-DDE 9. p,p'-DDD	PRRAL/MOA-05 Issue No:2 date:16/12/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.025-0.50 mg kg ⁻¹
		<u>Organophosphorous Group</u> 10. Phorate 11. Dimethoate 12. Chlorpyrifos 13. Malathion 14. Parathion -methyl 15. Quinalphos 16. Profenophos 17. Ethion	PRRAL/MOA-05 Issue No:2 date:16/12/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.025-0.50 mg kg ⁻¹
		<u>Synthetic Pyrethroids and Herbicides</u> 18. Fenvalerate 19. λ -Cyhalothrin 20. β -Cyfluthrin 21. Fenpropathrin 22. Bifenthrin 23. Pendimethalin 24. Fluchloralin	PRRAL/MOA-05 Issue No:2 date:16/12/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	9 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Fish	Pesticide residue analysis <u>Organochlorine Group</u> 1. α -HCH 2. β -HCH 3. γ -HCH/ Lindane 4. δ -HCH 5. Endosulfan-I 6. Endosulfan-II 7. Endosulfan sulfate 8. p,p'-DDE 9. p,p'-DDD	PRRAL/MOA-06 Issue No:2 date:16/12/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.025-0.50 mg kg ⁻¹
		<u>Organophosphorous Group</u> 10. Phorate 11. Dimethoate 12. Chlorpyrifos 13. Malathion 14. Parathion -methyl 15. Quinalphos 16. Profenophos 17. Ethion	PRRAL/MOA-06 Issue No:2 date:16/12/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.025-0.50 mg kg ⁻¹
		<u>Synthetic Pyrethroids and Herbicides</u> 18. Fenvalerate 19. λ -Cyhalothrin 20. Cypermethrin 21. β -Cyfluthrin 22. Fenpropathrin 23. Bifenthrin 24. Pendimethalin 25. Fluchloralin	PRRAL/MOA-06 Issue No:2 date:16/12/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method)	0.05-0.5 mg kg ⁻¹

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	10 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	Black Pepper	Pesticide residue analysis <u>Organochlorine Group</u> 1. α -HCH 2. β -HCH 3. γ -HCH/ Lindane 4. δ -HCH 5. Endosulfan-I 6. Endosulfan-II 7. Endosulfan sulfate 8. p,p'-DDE 9. p,p'-DDD	PRRAL/MOA-07 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS))	0.05-0.5 mg Kg ⁻¹
		<u>Organophosphorous Group</u> 10. Phorate 11. Dimethoate 12. Chlorpyrifos 13. Malathion 14. Parathion -methyl 15. Quinalphos 16. Profenophos 17. Ethion	PRRAL/MOA-07 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS))	0.10-0.5 mg Kg ⁻¹
		<u>Synthetic Pyrethroids and Herbicides</u> 18. Fenvalerate 19. λ -Cyhalothrin 20. Cypermethrin 21. β -Cyfluthrin 22. Fenpropathrin 23. Bifenthrin 24. Pendimethalin 25. Fluchloralin	PRRAL/MOA-07 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS))	0.10-0.50 mg Kg ⁻¹

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	11 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Black Pepper	<u>Carbamates and new molecules</u> 26. Spirotetramat 27. Chlorantraniliprole 28. Emamectin Benzoate 29. Fipronil 30. Fenpyroximate 31. Indoxacarb 32. Carbaryl 33. Carbofuran 34. Carbofuran-3-hydroxy 35. Carbofuran-3-keto 36. Methomyl 37. Carbendazim	PRRAL/MOA-07 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS))	0.10-0.50 mg Kg ⁻¹
7.	Cardamom	Pesticide residue analysis <u>Organochlorine Group</u> 1. α-HCH 2. β-HCH 3. γ-HCH/ Lindane 4. δ-HCH 5. Endosulfan-I 6. Endosulfan-II 7. Endosulfan sulfate 8. p,p'-DDE 9. p,p'-DDD	PRRAL/MOA-07 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS))	0.05-0.5 mg Kg ⁻¹

Laboratory	Pesticide Residue Research and Analytical Laboratory, AINP on Pesticide Residues, College of Agriculture, Kerala Agricultural University, Vellayani P.O., Thiruvananthapuram, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2014
Certificate Number	T-2157	Valid Until	02.02.2016
Last Amended on	-	Page	12 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cardamom	<u>Organophosphorous Group</u> 10. Phorate 11. Dimethoate 12. Chlorpyrifos 13. Malathion 14. Parathion -methyl 15. Quinalphos 16. Profenophos 17. Ethion	PRRAL/MOA-07 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS))	0.10-0.5 mg Kg ⁻¹
		<u>Synthetic Pyrethroids and Herbicides</u> 18. Fenvalerate 19. λ-Cyhalothrin 20. Cypermethrin 21. β-Cyfluthrin 22. Fenpropathrin 23. Bifenthrin 24. Pendimethalin 25. Fluchloralin	PRRAL/MOA-07 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS))	0.10-0.50 mg Kg ⁻¹
		<u>Carbamates and new molecules</u> 26. Spirotetramat 27. Chlorantraniliprole 28. Emamectin Benzoate 29. Fipronil 30. Fenpyroximate 31. Indoxacarb 32. Imidacloprid 33. Thiamethoxam 34. Carbaryl 35. Carbofuran	PRRAL/MOA-07 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS))	0.10-0.50 mg Kg ⁻¹

Laboratory Pesticide Residue Research and Analytical Laboratory, AINP on Pesticide Residues, College of Agriculture, Kerala Agricultural University, Vellayani P.O., Thiruvananthapuram, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 03.02.2014

Certificate Number T-2157 **Valid Until** 02.02.2016

Last Amended on - **Page** 13 of 13

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cardamom	36. Carbofuran-3-hydroxy 37. Thiacloprid 38. Methomyl 39. Carbofuran 3- keto 40. Acetamiprid 41. Trifloxystrobin 42. Tebuconazole 43. Flubendiamide 44. Hexaconazole 45. Fluzilazole 46. Tebufenpyrad 47. Carbosulfan 48. Ethiprole	PRRAL/MOA-07 Issue No:2 date:16/01/2013 (Ref:- AOAC 18 th Edition 2007: 2007.17 and EU reference laboratory multi residue method using QuEChERS))	0.10-0.50 mg kg ⁻¹

-X-X-X-X-X-X-X-X-X-X-X-X-