Page No. 1/2 FC-PF-260

### PESTICIDE FORMULATION & RESIDUE ANALYTICAL CENTRE, PMD, NIPHM, HYDERABAD

Sr. No. in Scope

# Flow Chart for Analysis of Pretilachlor Content in Formulation Sample

		Date of Analysis				
Sl. No.	Step	Execution	Executed By			
1.	Sample No.					
2.	Name of Sample					
3.	Procedure					
3.1	Preparation of Internal Standard Solution					
3.1.1	Weigh 0.56 g of Benzoic acid 2- Naphthyl ester in 100 mL volumetric flask.	g				
3.1.2	Note down the serial No. of the balance log book					
3.1.3	Dissolve and make up to the mark with Acetone					
3.2	Preparation of Standard Solution					
3.2.1	Purity of standard	%				
3.2.2	Weigh 0.1 g a.i. of standard in 25 mL volumetric flask	g				
3.2.3	Note the serial No. of the balance log book					
3.2.4	Add 20mL of internal standard solution (3.1.3).	mL				
3.2.5	Dissolve and make up to the mark with acetone.					
3.3	Preparation of Sample Solution					
3.3.1	Note down the percent active ingredient content declared on the sampl	e %				
3.3.2	Weigh 0.1 g a.i. of sample in 25 mL volumetric flask	g				
3.3.3	Note down the serial No. of the balance log book.					
3.3.4	Add 20mL of internal standard solution (3.1.3).	mL				
3.3.5	Dissolve and make up to the mark with acetone.					
4.	GC Parameters					
4.1	Column: Packed with 3% OV-225 Gaschrome Q (80-100) mesh					
4.1.1	Length X ID: 1.8 m X 2 mm					
4.2	Gas					
4.2.1	Carrier: Nitrogen: 30 mL/min					
4.2.2	Hydrogen: 30 mL/min					

Name of the Laboratory : Pesticide Formulation & Residue Analytical Centre, PMD, NIPHM, Hyderabad					
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Revision No.	:	00	Issue Date	:	01/11/2013
Revision Date	:	Next Revision Date		:	01/11/2015
Prepared By		Зу	Checked By		Approved &Issued By
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Page No. 2/2 FC-PF-260

## PESTICIDE FORMULATION & RESIDUE ANALYTICAL CENTRE, PMD, NIPHM, HYDERABAD

4.2.3	Air: 300 mL/min
4.3	Temperatures
4.3.1	Oven: 225°C
4.3.2	Injector: 250°C
4.3.3	Detector: 280°C
4.4	Injection volume: 1 µl
5.	Results
	Sample chromatogram no.
	Standard chromatogram no.

### 6. Calculation:

Pretilachlor content, % by mass=	Where, $A_1$ = Peak area of pretilachlor in the sample solution. A'IS' <sub>1</sub> = Peak area of internal standard in the sample solution. A'IS' <sub>2</sub> = Peak area of internal standard in the standard solution. $A_2$ = Peak area of pretilachlor in the standard solution. $A_1$ = Mass in 'g' of standard pretilachlor in the standard solution. $A_2$ = Mass in 'g' of pretilachlor sample taken for test. $A_1$ = Percent purity of pretilachlor standard.

### Result:

Sr.No.	Name of test	Result Unit		Method of Analysis		
1.	Active ingredient		%	IS: 15158:2002 (Reaffirmed 2009)		
Remark / Ref	erence :					
An along d has	Name					
Analyzed by	Dated signature					
Checked by	Name					
Checked by	Dated signature					

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