

US EPA ARCHIVE DOCUMENT

BAS 510 F  
BAS 510F and M510F01  
PMRA a.i. code (CCH)

Multiresidue Method  
OPPTS 860.1360  
DAC07.2.4

PC Code: 128008  
MRID: 45405107  
Submission # 2001-1027, 1036, 1043




UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460


OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

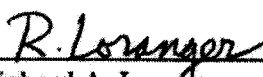
**MEMORANDUM**

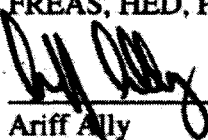
Date: July 2, 2003

Reviewers:

 Date: 8/20/03  
William T. Drew, Chemist  
Reviewer  
RAB2/HED (7509C)

 Date: July 16/03  
Henri P. Bietlot, Chemist  
Peer reviewer  
FREAS, HED, PMRA

 Date: 8/15/03  
Richard A. Loranger  
Branch Senior Scientist  
RAB2/HED (7509C)

 Date: July 25/03  
Ariff Ally  
Section Head  
FREAS, HED, PMRA

DP Barcode: D278386

Petition: 1F06313

Citation: 45405107 Fomenko, J. (2001) PAM I Multiresidue Testing for BAS 510 F and its Hydroxy Metabolite (M 510 F01): Lab Project Number: A054.006: 2001/5000875: 46647. Unpublished study prepared by Maxim Technologies, Inc. 89 pages.

Sponsor: BASF Corporation

**Background**

The information contained herein was compiled by Dynamac Corporation (20440 Century Boulevard, Suite 100, Germantown MD 20874), contractor, under the supervision of RAB2/HED. This DER has undergone secondary review by RAB2, and reflects current HED and Office of Pesticide Programs (OPP) policies. This DER has also been peer-reviewed by PMRA/Canada.

**Executive Summary**

Residues of BAS 510 F and its metabolite M510F01 were not adequately recovered using the multiresidue methods. BAS 510 F and M510F01 were not evaluated by Protocol A because

BAS 510 F  
BAS 510F and M510F01  
PMRA a.i. code (CCH)

Multiresidue Method  
OPPTS 860.1360  
DAC07.2.4

PC Code: 128008  
MRID: 45405107  
Submission # 2001-1027, 1036, 1043

neither analyte incorporates an N-methylcarbamate structure, and BAS 510 F was not evaluated by Protocol B since it is not an acid or a phenol. Methylated M510F01 was recovered at ~55% from Protocol B Florisil, and M510F01 was recovered at ~95% from Protocol B GPC. However, the response of methylated M510F01 at levels necessary to quantify recovery under this protocol was inconsistent and non-linear, therefore no additional work was performed. BAS 510 F and M510F01 had good responses with GC/ECD on a DB-1 column at standard and elevated temperature GC conditions under Protocol C. BAS 510 F and M510F01 were not recovered at ≥30% using Protocols D, E, and F. These data will be forwarded to the FDA for further evaluation.

## GLP Compliance

Signed and dated GLP, quality assurance, and data confidentiality statements were provided. The petitioner stated that reference standards of chlorpyrifos, ethion, p,p'-DDT, phosalone, and permethrin for the testing of Protocol C were purchased commercially and were not characterized according to GLP standards. The standards used were believed to be of highest quality; this deviation was not expected to impact the study results or their interpretation.

## 1. Test Substances

Common Name:	Nicobifen, proposed (parent compound)	Hydroxy metabolite
IUPAC Name:	2-Chloro-N-(4'-chlorobiphenyl-2-yl)-nicotinamide	2-Chloro-N-(4'-chloro-5-hydroxybiphenyl-2-yl)-nicotinamide
CAS Name:	3-Pyridinecarboxamide, 2-chloro-N-(4'chloro[1,1'-biphenyl]-2-yl)-	Not available
CAS Number:	188425-85-6	Not available
Company Name:	BAS 510 F	M510F01
Other Synonyms:	BASF Registry No. 300355	BASF Registry No. 398794

## 2. Results

PAM I Protocol	Analyte	Results	Comments
A	BAS 510 F	Not evaluated because neither analyte incorporates an N-methylcarbamate structure.	
	M510F01		
B	BAS 510 F	Not evaluated because it is not an acid or a phenol.	

Table 2.1. Results of Multiresidue Methods Testing with BAS 510 F and its metabolite M510F01.

PAMI Protocol	Analyte	Results	Comments
	M510F01 (and methylated M510F01)	Methylated M510F01 recovered ~55% from Protocol B Florisil; M510F01 recovered ~95% from Protocol B GPC.	The response of methylated M510F01 at levels necessary to quantify recovery under this protocol was inconsistent and non-linear, therefore no additional work was performed.
C	BAS 510 F	Good response with GC/ECD on a DB-1 column at standard and elevated temperature GC conditions.	Only the DB-1 column in combination with ECD was used because responses were good for both analytes using this system.
	M510F01 (and methylated M510F01)		
D	BAS 510 F	Not recovered at ≥30% through Protocol D Florisil using either methylene chloride or mixed ether elution systems.	No additional work was performed with BAS 510 F or M510F01.
	M510F01		
E	BAS 510 F	Not recovered at ≥30% through Protocol E Florisil using either methylene chloride or mixed ether elution systems.	No additional work was performed with BAS 510 F or M510F01.
	M510F01		
F	BAS 510 F	Not recovered at ≥30% through Florisil using either methylene chloride or mixed ether elution systems.	No additional work was performed with BAS 510 F or M510F01.
	M510F01		

### 3. Discussion

Residues of BAS 510 F and its metabolite M510F01 were not adequately recovered using the multiresidue methods. BAS 510 F and M510F01 were not evaluated by Protocol A because both analytes do not contain an N-methylcarbamate structure, and BAS 510 F was not evaluated by Protocol B since it is not an acid or a phenol. Methylated M510F01 was recovered at ~55% from Protocol B Florisil, and M510F01 was recovered at ~95% from Protocol B GPC. However, the response of methylated M510F01 at levels necessary to quantify recovery under this protocol was inconsistent and non-linear, therefore no additional work was performed. BAS 510 F and M510F01 had good responses with GC/ECD on a DB-1 column at standard and elevated temperature GC conditions under Protocol C. BAS 510 F and M510F01 were not recovered at ≥30% using Protocols D, E, and F. These data will be forwarded to the FDA for further evaluation.

### 4. Deficiencies

None.

### 5. References

BAS 510 F  
BAS 510F and M510F01  
PMRA a.i. code (CCH)

Multiresidue Method  
OPPTS 860.1360  
DAC07.2.4

PC Code: 128008  
MRID: 45405107  
Submission # 2001-1027, 1036, 1043

---

None.